STR-D865/D965

SERVICE MANUAL

US Model
Canadian Model
STR-D865/D965

AEP Model
Australian Model
Malaysia Model
Singapore Model
STR-D965

Photo : STR-D965

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SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, STR-D965 rated 110 watts, STR-D865 rated 100 watts per channel, minimum RMS power, with no more than 0.3 % total harmonic distortion from 250 milliwatts to rated output. (US model only)

Amplifier section

POWER OUTPUT

Stereo mode

US, Canadian model :
8 ohms 20 Hz - 20 kHz,
STR-D965:
110 W + 110 W
STR-D865:
100 W + 100 W
AEP, German, Australian model :
90 W + 90 W/4 ohms
(DIN 1 kHz, 0.3 % stereo mode)

Surround mode

US, Canadian model :
8 ohms at 1 kHz,
THD 0.8 %

	STR-D965	STR-D865
Front	100 W/ch	100 W/ch
Center (only in the DOLBY SUR and THEATER modes)	100 W	100 W
Rear	50 W/ch	25 W/ch

AEP, German, Australian model :
Front : 70 W/ch
Center : 70 W
Rear : 25 W/ch

Dynamic power output

STR-D965:
160 W + 160 W
(8 ohms)
225 W + 225 W
(4 ohms)
STR-D865:
155 W + 155 W
(8 ohms)
220 W + 220 W
(4 ohms)

Harmonic distortion at rated output

Less than 0.3 %

Frequency response

PHONO: RIAA equalization curve ±0.5 dB
CD, TAPE, DAT/MD, VIDEO 1, 2, 3*: $^{+0}_{-1}$ dB
10 Hz - 50 kHz

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	75 dB** (A, 2.5 mV)
CD	300 mV		
TAPE, DAT/MD, TV, LD, VIDEO 1, 2, 3*	250 mV	50 kilohms	82 dB** (A, 250 mV)

* STR-D965 only
** '78 IHF

— Continued on page 2 —

* Malaysia and Singapore model is the same as the AEP model.

FM STEREO/FM-AM RECEIVER

SONY

使用時は添付資料も参照のこと
Refer to the additional documents.

Outputs	REC OUT VIDEO 1, 2 (AUDIO) OUT: Voltage 250 mV, Impedance 10 kilohms MIX OUT Voltage: 2 V Impedance: 1 kilohms HEADPHONES: Accepts low and high impedance headphones
Muting	– 20 dB
BASS BOOST	+10 dB at 70 Hz
TONE	±8 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna terminals	75 ohms, unbalanced
Sensitivity	Mono: 18.3 dBf, 4.5 µV Stereo: 38.3 dBf, 45 µV
Usable sensitivity	11.2 dBf, 2 µV (IHF)
S/N	Mono: 76 dB Stereo: 70 dB
Harmonic distortion at 1 kHz	Mono: 0.3 % Stereo: 0.5 %
Separation	45 dB at 1 kHz
Frequency response	30 Hz - 15 kHz $^{+0.5}_{-2}$ dB
Selectivity	60 dB at 400 kHz

AM tuner section

Tuning range	US, Canadian model : With 10 kHz interval*: 530 - 1710 kHz With 9 kHz interval: 531 - 1710 kHz AEP, German, Australian model : 531 – 1710 kHz
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5 % (50 mV/m, 400 kHz)
Selectivity	US, Canadian model : At 9 kHz: 35 dB At 10 kHz: 40 dB

You can change the AM tuning interval to 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the PRESET TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz, repeat the procedure.

AEP, German, Australian model : 35 dB

Video section

Inputs	VIDEO 1, 2, 3*, TV, LD: 1 Vp-p 75 ohms (*STR-D965 only)
Outputs	VIDEO 1, 2, MONITOR: 1 Vp-p 75 ohms

General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complimentary SEPP
Power requirements	US, Canadian model : 120 V AC, 60Hz AEP, German, Australian model : 220–230 V AC, 50/60 Hz
Power consumption	STR-D965: US model : 230 W Canadian model : 325 VA AEP, German model : 220 W Australian model : 230 W STR-D865: US model : 220 W Canadian model : 320 VA
AC outlets	US, Canadian model : 2 switched, total 120W AEP, German, Australian model : switched, 100W
Dimensions	17 x 5 7/8 x 14 inches (430 x 148 x 355 mm)
Mass (Approx.)	STR-D965: 10.0 kg (22 lb 1 oz) STR-D865: 9.7 kg (22 lb 7 oz)
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote commander (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

* Malaysia and Singapore model is the same as the AEP model.

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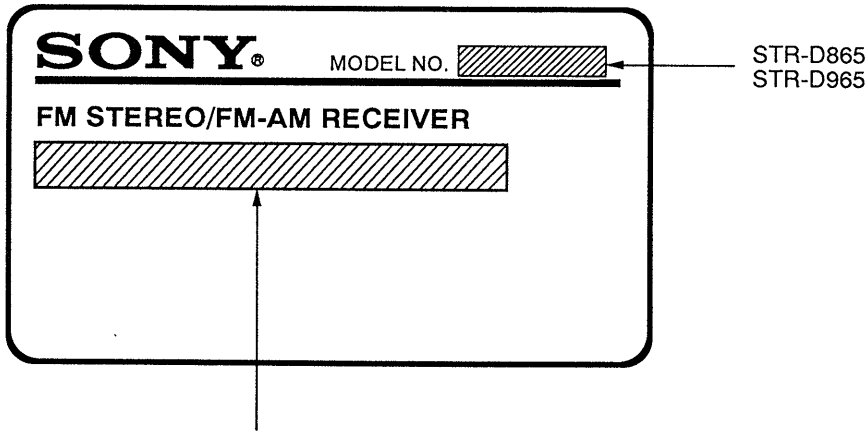
MODEL IDENTIFICATION
(Specification Label)



US, Canadian model : AC 120V 60Hz
Australian model : AC 240V~50/60Hz
AEP, German model : AC 220-230V~50/60Hz
* Malaysia and Singapore model is the same as the AEP model.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

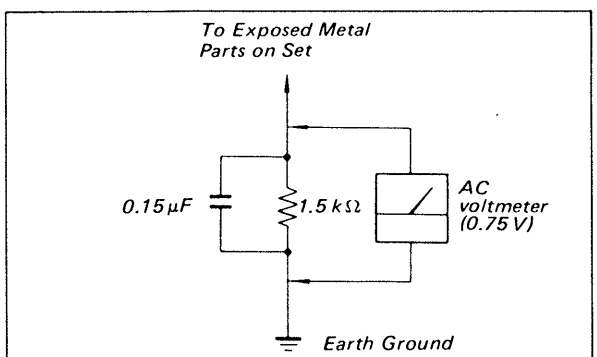


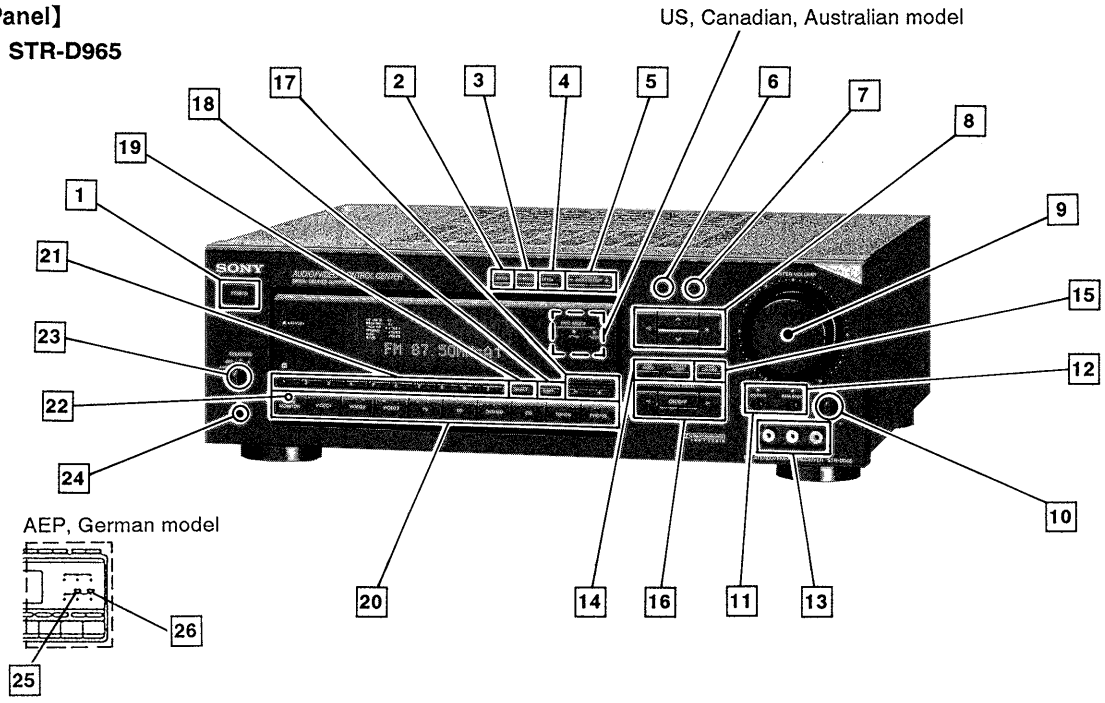
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENARL

LOCATION AND FUNCTION OF CONTROLS

[Front Panel]

Photo : STR-D965



1 POWER ON/STANDBY switch

2 BAND switch

3 FM MODE switch

4 LEVEL switch

5 TUNING/INDEX SELECT switches
- − switch
- + switch

6 DISPLAY switch

7 MEMORY switch

8 Digital processing control buttons
- < button
- ∧ button
- ∨ button
- > button

9 MASTER VOLUME control

10 BALANCE control

11 MUTING, BASS BOOST switches

12 MUTING, BASS BOOST indicator

13 VIDEO 3 INPUT jack

14 MODE switches
- DPC MODE switches
- CENTER MODE switches

15 TONE ON/OFF switch

16 SOUND FIELD buttons
- < button
- ON/OFF button
- > button

17 PRESET TUNING buttons
- + button
- − button

18 SHIFT button

19 DIRECT button

20 Preset numbers buttons
- 0 − 9 button

21 FUNCTION selectors and TAPE MONITOR buttons
- TAPE MONITOR 2 button
- VIDEO 1 button
- VIDEO 2 button
- VIDEO 3 button
- TV button
- LD button
- DAT/MD button
- CD button
- TUNER button
- PHONO button

22 TAPE MONITOR 2 indicator

23 SPEAKERS selector

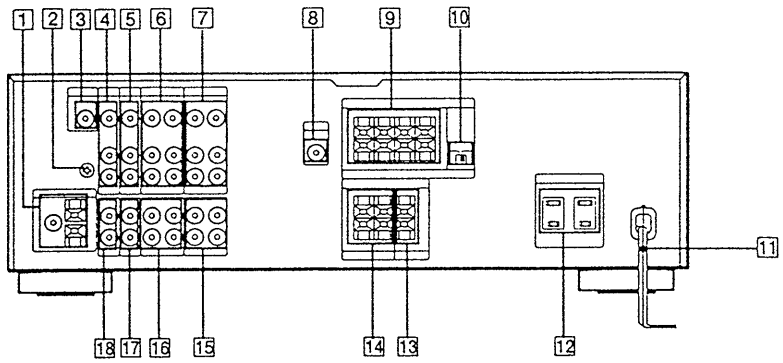
24 PHONES jack

25 PTY button (AEP, German model)

26 EON button (AEP, German model)

* Malaysia and Singapore model is the same as the AEP model.

【Rear Panel】



1 ANTENNA (AM/FM)
2 ⏚ ground terminal
3 MONITOR
4 LD
5 TV
6 VIDEO 2
7 VIDEO 1
8 MIX OUT
9 FRONT SPEAKERS (A/B)
10 IMPEDANCE SELECTOR
11 AC power cord
12 SWITCHED AC OUTLET
13 SURROUND SPEAKERS (CENTER)
14 SURROUND SPEAKERS (REAR)
15 TAPE
16 DAT/MD
17 CD
18 PHONO

[Remote Buttons Descriptions]

Remote Button	Operates	Function
0-9	Receiver	Selects preset numbers.
	CD player/ MD recorder LD player	Selects track numbers. 0 selects track 10.
	TV/VCR	Selects channel numbers.
>10	CD player/ Tape deck/LD player /MD recorder	Selects track numbers over 10.
CH/PRESET +/ −	Receiver	Scans and selects preset station
	TV/VCR	Selects preset channels
INDEX	Receiver	Selects station index names for index select tuning
D. SKIP	CD player	Skip discs (CD player with multi-disc changer only.)
◀◀/▶▶	CD player	Searches tracks (forward or backward).
	Tape deck/MD recorder/VCR/LD player	Fastforwards or rewinds.
⏮/⏭	CD player / MD recorder/ LD player	Skips tracks.
⏸	CD player/ Tape deck/MD recorder/LD player/ VCR	Pauses play or record. (Also starts recording with components in record standby.)
▶	CD player/ Tape deck/MD recorder/LD player/ VCR	Starts play.
■	CD player/ Tape deck/MD recorder/LD player/ VCR	Stops play.
◀	Tape deck	Starts play on the reverse side.
●	Tape deck	Sets tape decks to the record standby mode.
●+▶	Tape deck/ MD recorder/ VCR	Starts recording when pressed with ▶ (or ◀ on tape deck).

Remote Button	Operates	Function
RMS DIRECTION	Tape deck	Selects tape direction (for tape decks with the RMS* function.)
RMS CLEAR	Tape deck	Clears RMS* program (for tape decks with the RMS function.)
RMS/START	Tape deck	Programs tracks (tape deck with the RMS* function only.)
ENTER	TV/VCR	Changes channels when used with 0-9.
TV/VIDEO	TV/VCR	Selects input signal : TV input or video input
VISUAL POWER	TV/VCR/LD player	Turns on or off the power
TV CONTROL ON	TV	Turns on the TV, switches the input to "TV", and sets the remote to oparate the TV.
-/--	TV	Selects the channel entry mode, either one or two digit (in Europe only).
SUB CH +/-	TV	Selects preset channels for the small picture.**
POSI	TV	Changes the position of the small picture.**
SWAP	TV	Swaps the small and the large picture.**
PINP	TV	Activates the picture-in-picture function.**
JUMP	TV	Jamps back and forth between the previous and current channels.
ANT TV/ VTR	VCR	Selects output signal from the antenna terminal : TV signal or VCR program.

SECTION 2
EXPLANATION OF IC TERMINALS

IC104 (MB90673PF-104)

Pin No.	Pin name	I/O	Description
1	V-A	O	VIDEO A control terminal.
2	V-B	O	VIDEO B control terminal.
3	KEY-IN	I	Key in 1.
4	KEY-IN	I	Key in 2.
5	KEY-IN	I	Key in 3.
6	KEY-IN	I	Key in 4.
7	KEY-IN	I	Key in 5.
8	KEY-IN	I	Key in 6.
9	KEY-IN	I	Key in 7.
10	DAT IN	I	PLL data input terminal.
11	GND	–	Power supply. (GND)
12	FL-LATCH	O	FL latch output.
13	POWER RY	O	Power relay drive.
14	RM IN	I	SIRCS signal input terminal.
15	BRID RY	O	Bridgiable relay drive.
16	SURR RY	O	Surround relay drive.
17	CENTER RY	O	Center relay drive.
18	SP RY	O	Speaker relay drive.
19	SP-OFF. IN	I	Speaker OFF DET.
20	UART	–	Not used. (GND)
21	UART	–	Not used. (GND)
22	UART	–	Not used. (GND)
23	FL-CLR	O	FL clear.
24	FL-DATA	O	FL data output.
25	FL-CLK	O	FL clock output.
26	PROTECT IN	I	Protector DET input.
27	4-8-IN	I	4-8 in.
28	AVcc 5V	–	Power supply. (+5V)
29	AVREF 5V	–	Reference voltage. (+5V)
30	AVREF 0V	–	Reference voltage. (GND)
31	GND	–	Power supply. (+5V)
32	A/D SIG-IN	I	A/D signal input terminal.
33	NC	–	Not used. (GND)
34	Vss-GND	–	Power supply. (GND)
35	A/D KEY IN	I	A/D key input.
36	NC	–	Not used. (OPEN)
37	VOL LED	O	Volume LED drive. (Not used)
38	VOL +	O	Volume + control.
39	VOL –	O	Volume – control.
40	20dB MUT	O	– 20dB mute.

Pin No.	Pin name	I/O	Description
41	+5V	–	+5V.
42	+5V	–	+5V.
43	GND	–	Power supply. (GND)
44	+5V	–	+5V.
45	STOP	I	Stop in.
46	V-INHI	O	Video inhibit output.
47	RDS DATA IN	I	RDS data input.
48	RDS CLK IN	I	RDS clock input.
49	V-E	O	Video E control.
50	F-MUTE	O	Function mute control.
51	SUR-MUTE	O	Surround mute control.
52	SUR-LATCH	O	Surround latch output.
53	KEY-OUT	O	Key out 1.
54	KEY-OUT	O	Key out 2.
55	KEY-OUT	O	Key out 3.
56	KEY-OUT	O	Key out 4.
57	KEY-OUT	O	Key out 5.
58	KEY-OUT	O	Key out 6.
59	KEY-OUT	O	Key out 7.
60	KEY-OUT	O	Key out 8.
61	TONE LATCH	O	Tone latch output.
62	RESET	I	System reset terminal.
63	Vss-GND	–	Power supply. (GND)
64	OSC	I	System clock OSC. (4.0MHz)
65	OSC	O	System clock OSC. (4.0MHz)
66	Vcc 5V	–	Power supply. (+5V)
67	ENCODER IN	I	Function encoder input terminal. (B : DOWN)
68	ENCODER IN	I	Function encoder input terminal. (A : UP)
69	ENCODER IN	I	UP/DOWN encoder input terminal. (B : DOWN)
70	ENCODER IN	I	UP/DOWN encoder input terminal. (A : UP)
71	ENCODER IN	I	L/R encoder input terminal. (A : UP)
72	ENCODER IN	I	L/R encoder input terminal. (B : DOWN)
73	POWER KEY IN	I	Power key input terminal.
74	LED-DATA	O	LED data output.
75	CLOCK	O	Serial clock output.
76	DATA	O	Serial data output.
77	TUNER LATCH	O	Tuner function latch output.
78	A. STOP	I	Auto stop DET.
79	TUNER-MUTE	O	Tuner mute control output.
80	STEREO	I	Stereo DET.

SECTION 3
DIAGRAMS

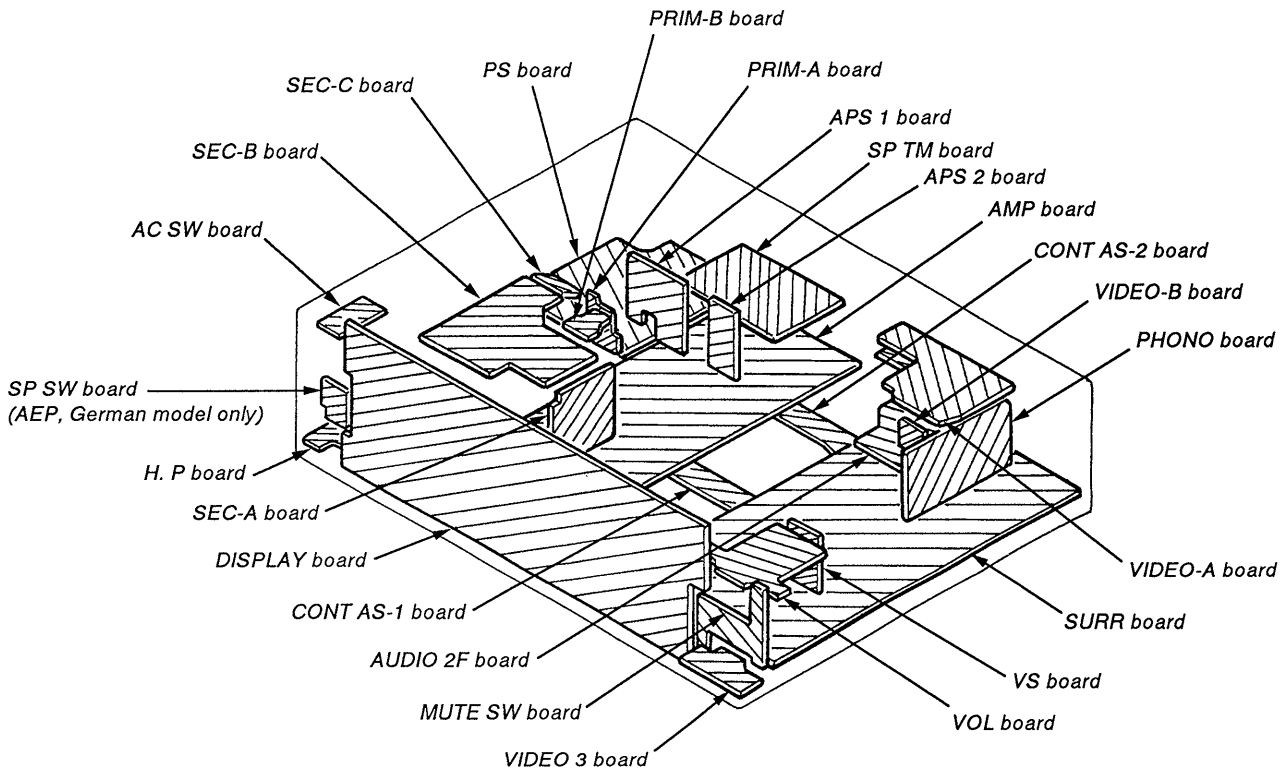
3-1. BLOCK DIAGRAM

TUNER UNIT TU401
FM 75Ω
AM
TM401 ANTENNA
L CH
R CH
R-CH
SIGNAL
IFD
STEREO
T MUTE
A STOP
CE
DATA
CLOCK
DET OUT
S2
INPUT SELECTOR IC305 (1/2)
LEVEL SHIFT
LATCH
SHIFT REGIST ER
CONTROL
BUFFER IC302 (1/2)
IC305 (2/2)
-20dB MUTING Q401
MUTE DRIVE Q408
EQ AMP IC301
PHONO
CD
DAT/MD IN
VIDEO 3 AUDIO IN
BUFFER IC302 (2/2)
TAPE IN
DAT/MD OUT
TAPE OUT
J301
J299
J302
DOLBY SURROUND DECORDER IC401
VR
VR CONTROL
BALANCE CONTROL
DEVIDER
OSC
MUTE
VCA
CMODE
CTRIM
CONTROL
LAT
DATA
CLK
VREF
SURROUND MATRIX DECORDER IC402
EFECT SWITCH
20K L.P.F
A/D D/A
12K S RAM
LOGIC CONTROL
S TRIM
X401 8MHz
BUFFER IC403 (1/2)
BUFFER IC403 (2/2)
LINE MUTING Q407
SURROUND MUTING Q405
CENTER MUTING Q404
RV100 BALANCE
RV401-1 MASTERB VOLUME
RV401-3 MASTER VOLUME
RV401-4 MASTER VOLUME
BUFFER IC406
REAR POWER AMP IC601
RY602
RELAY DRIVE Q608
TM601(1/2) SURROUND SPEAKERS REAR
IMPEDANCE USE 8-16 Ω
FRONT POWER AMP IC501
CENTER POWER AMP IC503
B+
B-
POWER AMP Q703
POWER AMP Q704
BIAS Q701, 702
POWER AMP Q604
POWER AMP Q603
BIAS Q601, 602
OVER LOAD DET Q705, 706
OVER LOAD DET Q065, 606
D710
D711
PROTECTOR Q713
PROTECTOR Q711
PROTECTOR Q712
RY101
RELAY DRIVE Q105
J100 PHONES
RY701
RELAY DRIVE Q714
RY702
RELAY DRIVE Q764
TM701 FRONT SPEAKER IMPEDANCE USE 4-16 Ω
A
B
RY601
RELAY DRIVE Q607
TM601 (2/2) SURROUND SPEAKER CENTER IMPEDANCE USE 8-16 Ω
J701 MIX OUT
S100 SPEAKERS
A+B
OFF
D114
D113
D716
SPEAKER SWITCH Q104
D865 MODEL
SPEAKER SWITCH Q717, 718
SPEAKER SWITCH Q716
D965:US, CND, AUS MODEL
IMPEDANCE SELECTOR 4Ω 8Ω
AEP, G, AUS MODEL
5V
D125
LED SWITCH Q107, 108
Q411 LOW BOOST
Q501, 502 AMP VOLTAGE
ELECTRONIC VOLUME IC502
S.CLK
S.DATA
INPUT SELECTOR IC304
J303-3 TV IN
J303-2 LD IN
J304-3 VIDEO 2 AUDIO IN
J303-1 VIDEO 2 AUDIO OUT
J304-1 VIDEO 1 AUDIO IN
J304-2 VIDEO 1 AUDIO OUT
S.LAT
SCLK
AEP G MODEL
BUFFER IC404 (1/2)
BUFFER IC404 (2/2)
RDS DEMODULATOR IC405
IN
X402 4.332MHz
RDDA
RDCL
FUNCTION MUTING Q301
MUTE DRIVE Q409
MOTOR DRIVE IC103
INPUT LOGIC
DRIVE CIRCUIT
+12V
RV401 MASTER VOLUME
LED SWITCH Q106
SURR MUTE
VOL +
VOL -
SUR LATCH
RDS DATA IN
RDS CLK IN
TONE LATCH
20DB MUTE
F MUTE
CLK
DATA
TUNER LATCH
A.STOP
TUNER MUTE
STRO
DATA IN
A/D SIGNAL IN
V INH
A/D KEY IN
V-A
V-B
V-E
LED DATA
SYSTEM CONTROL IC104
S138 MUTE
S146 BASS BOOST
SURR RY
4-8-IN
PROTECT IN
CENTER RY
SP RY
SP OFF IN
KIN 1
KIN 7
KOUT1
KOUT 8
KEY MATRIX
S101-107, 109, 110
S111-137
S139-142
S143-145
BRID RY
FL CLR
FL LATCH
FL DATA
FL CLK
DISPLAY DRIVE IC100
DISPLAY DRIVE IC105
INDICATOR TUBE FULUORESCENT FL100
FF1
FF2
POWER RY
RM IN
STOP
POWER KEY IN
OSC
RESET
X100 4MHz
S108 POWER
RESET Q103
VIDEO FUNCTION SWITCH IC201
J202-2 TV VIDEO IN
J201-1 LD VIDEO IN
J203 VIDEO 1 VIDEO IN
J202-1 VIDEO 2 VIDEO IN
J299 VIDEO 3 VIDEO OUT
DECORDER
VIDEO MUTING Q207
BUFFER Q205, 206
J201-2 MONITER
BUFFER Q202, 204
J202-1 VIDEO 2 VIDEO OUT
BUFFER Q201, 203
J203 VIDEO 1 VIDEO OUT
LED DRIVE IC101
BUFFER
12BIT SHIFT REGISTER
INPUT CONTROL CIRCUIT
LATCH CIRCUIT
LED D106, 108 D118-124
+35V REG Q801
B+ (+45V)
B- (-45V)
RECT D802
B+ (+35V IC100, 105)
RELAY DRIVE Q802
RY801
+5V REG IC106
B+ (+5V IC106)
+9V REG Q403
B+ (+9V)
B+ REG IC801
B+ (12V)
B- REG IC803
B- (-12V)
B+ (+35V RY701, 702)
RECT D803
T901 POWER TRANWSFORMER
D908
US, CND MODEL
CNJ901 AC OUTLET
EXCEPT US, CND MODEL
CNJ906 AC OUTLET
RY901
RELAY DRIVE Q901
+5V (IC100, 105)
+5V SWITCH Q100
+5V SWITCH Q101
D115
B+ REG Q902
RECT D901-904
T902 POWER TRANSFORMER
EXCEPT AEP, G MODEL
S901 POWER
AEP, G MODEL
AC IN
RECT D905, 906
REMOCON DET IC102
D116
RESET IC901
—R-CH Is omitted:Same as L-CH—
Signal Path
:FM
Abbreviations
G:German
AUS:Australian
CND:Canadian

* Malaysia and Singapore model is the same as the AEP model.

02

3-2. CIRCUIT BOARDS LOCATION



3-3. PRINTED WIRING BOARDS (SURROUND SECTION)

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D401	J - 10
D402	I - 7
D403	G - 5
IC201	C - 3
IC301	B - 11
IC302	F - 4
IC303	H - 4
IC304	C - 9
IC305	G - 4
IC401	H - 8
IC402	J - 8
IC403	J - 10
IC404	B - 14
IC405	C - 14
IC406	F - 13
IC501	F - 11
IC502	G - 11
IC503	F - 6
Q201	C - 3
Q202	B - 3
Q203	C - 3
Q204	B - 3
Q205	D - 4
Q206	D - 3
Q207	D - 3
Q301	J - 4
Q302	J - 4
Q401	G - 7
Q402	G - 7
Q403	I - 9
Q404	J - 12
Q405	J - 12
Q406	J - 12
Q407	J - 12
Q408	H - 6
Q409	J - 5
Q410	J - 7
Q411	H - 6
Q501	H - 9
Q502	G - 9
Q551	H - 12
Q552	H - 12

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian

* Malaysia and Singapore model is the same as the AEP model.

【VIDEO-A BOARD】

【VIDEO-B BOARD】

【AUDIO 2F BOARD】

【PHONO BOARD】

【SURR BOARD】

【VOL BOARD】

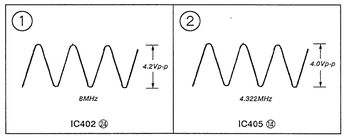
【VS BOARD】

【VIDEO 3 BOARD】

3-4. SCHEMATIC DIAGRAM (SURROUND SECTION)

● Refer to page 21 for IC Block Diagrams.

● WAVEFORMS



Note :

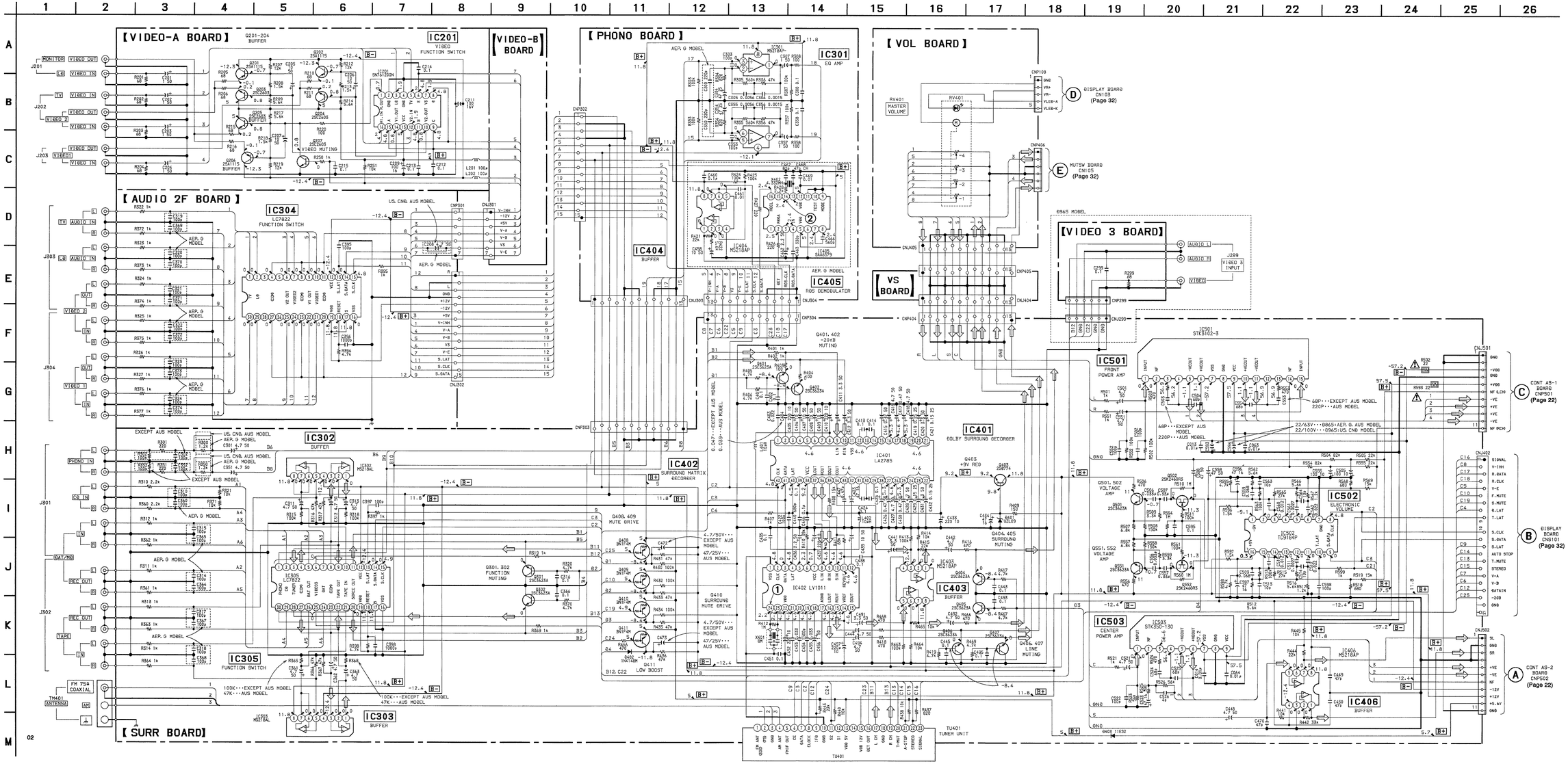
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note :
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note :
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

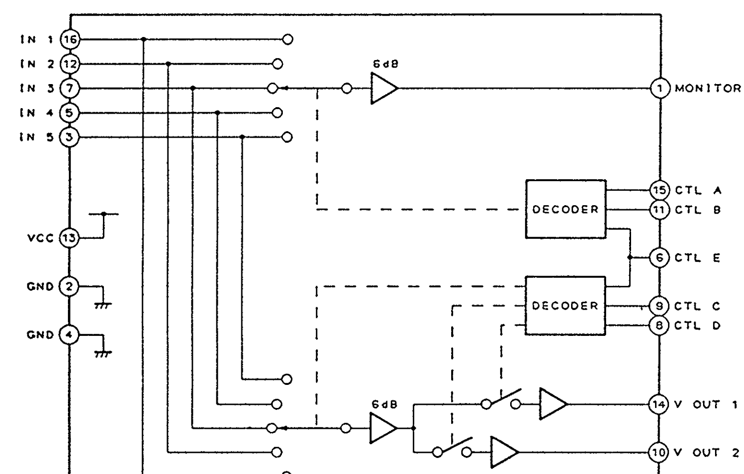
- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  * Malaysia and Singapore model is the same as the AEP model.

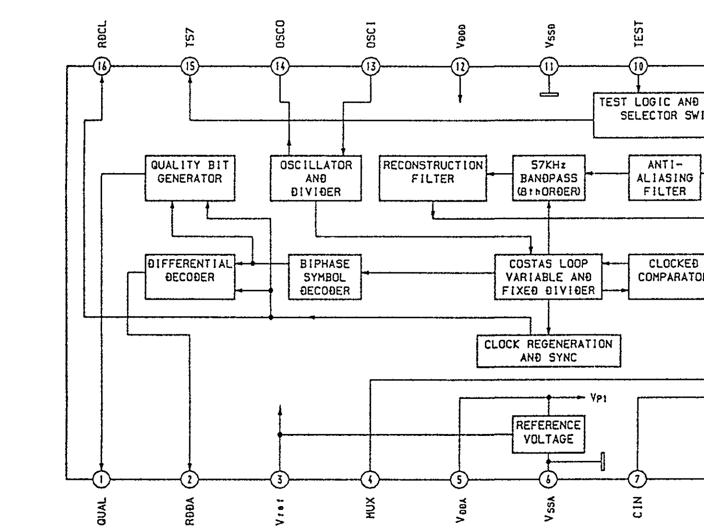


• IC BLOCK DIAGRAM – SURROUND SECTION –

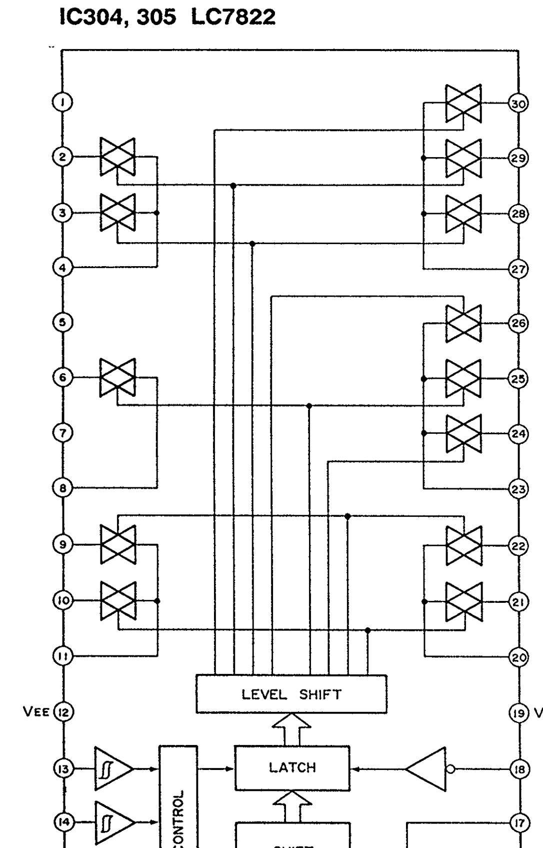
IC201 SN761200



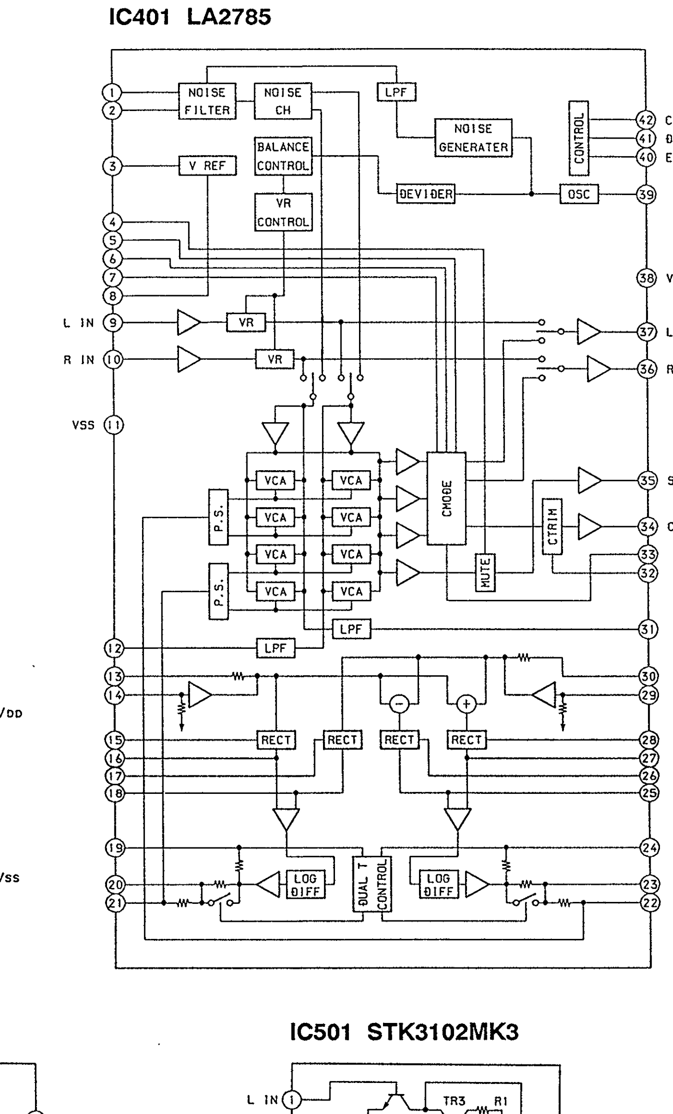
IC405 SAA6579


TEST LOGIC AND OUTPUT SELECTOR SWITCH
QUALITY BIT GENERATOR
OSCILLATOR AND DIVIDER
RECONSTRUCTION FILTER
57KHz BANDPASS (8thORDER)
ANTI-ALIASING FILTER
DIFFERENTIAL DECODER
BIPHASE SYMBOL DECODER
COSTAS LOOP VARIABLE AND FIXED DIVIDER
CLOCKED COMPARATOR
CLOCK REGENERATION AND SYNC
REFERENCE VOLTAGE
QUAL
RDDA
MUX
CIN
SCOUT
TEST
TSTLD

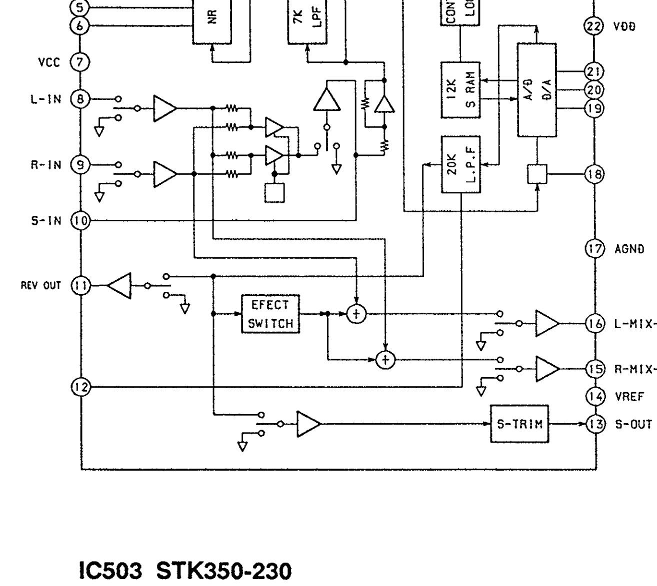
IC304, 305 LC7822



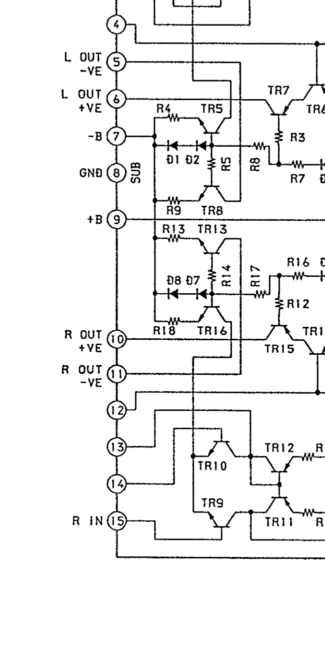
IC401 LA2785



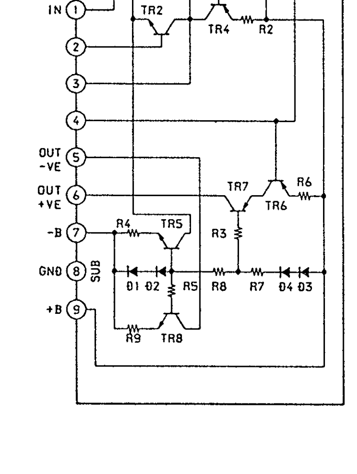
IC402 LV1011



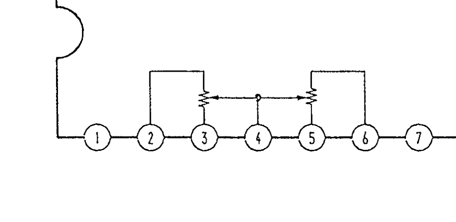
IC501 STK3102MK3



IC503 STK350-230

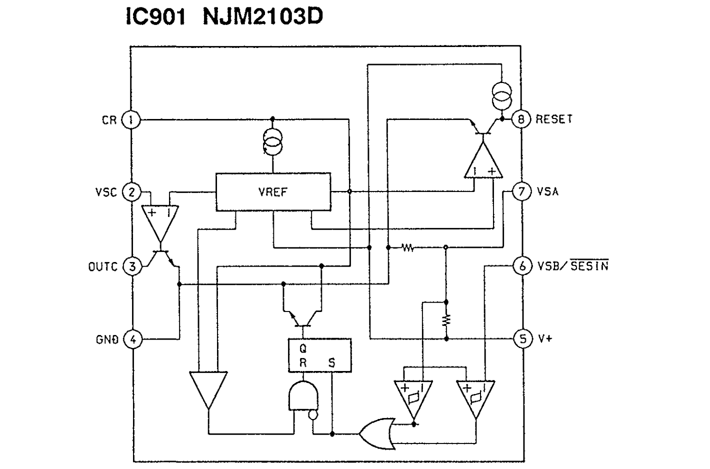


IC502 TC9184P



• IC BLOCK DIAGRAM – AMP SECTION –

IC901 NJM2103D



Note :

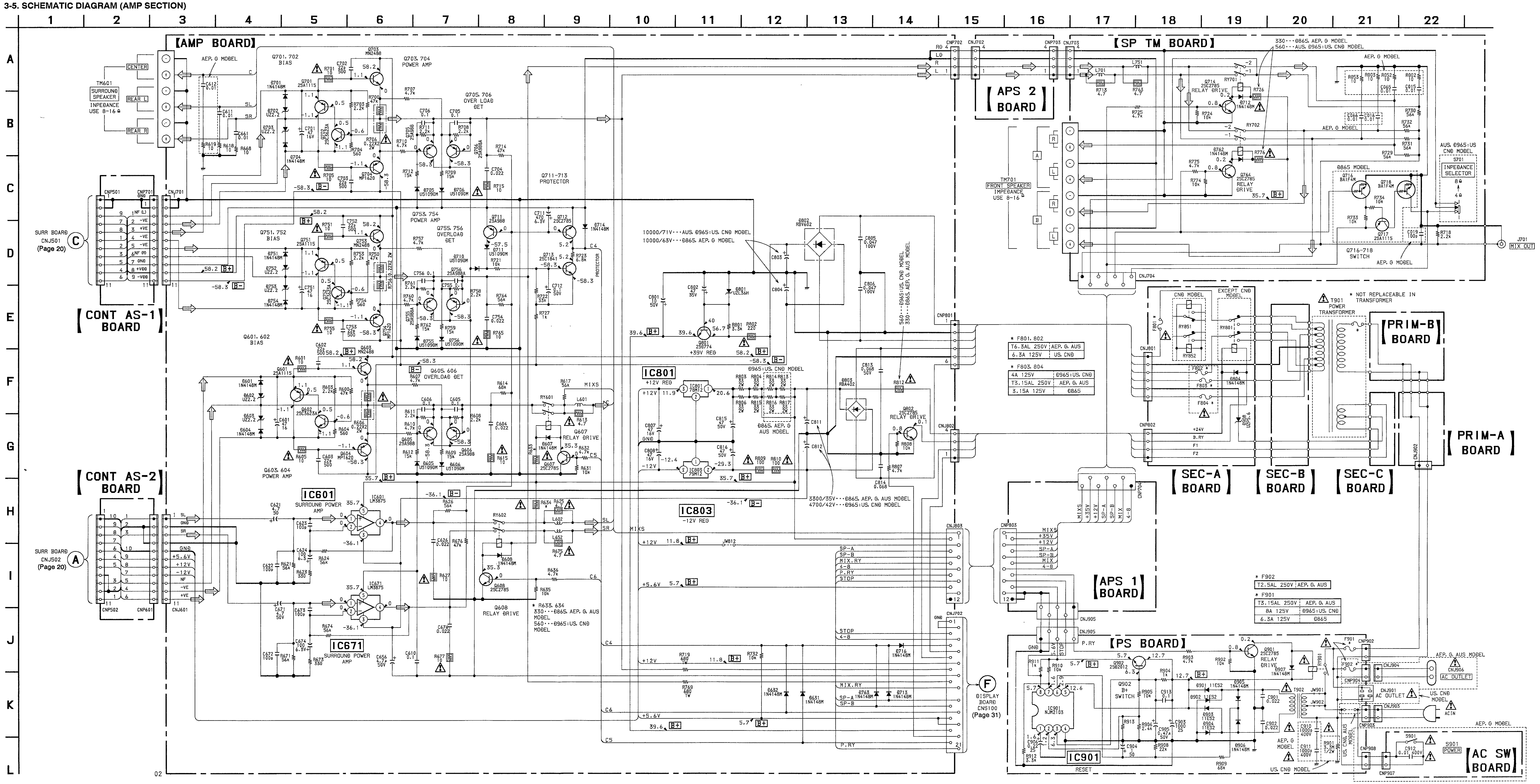
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

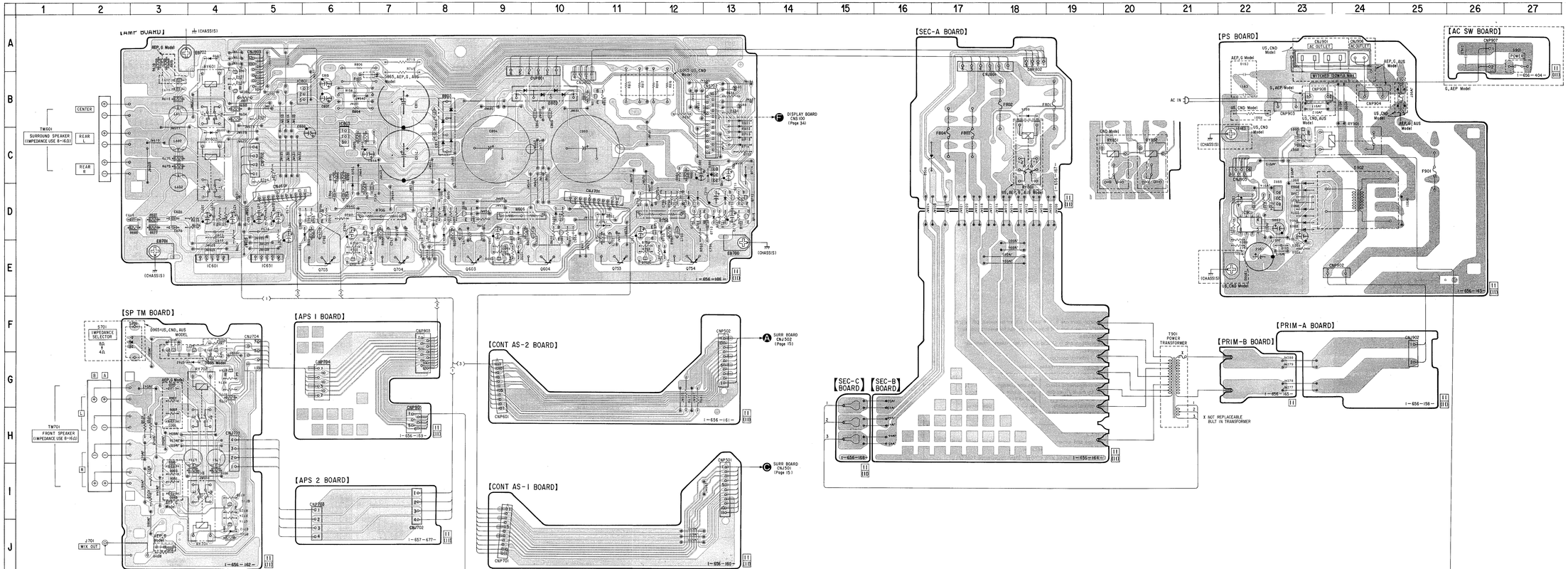
Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B – : B – Line
- Voltage are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

- Signal path.
  ⇨ : FM
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
- ∗ Malaysia and Singapore model is the same as the AEP model.

3-5. SCHEMATIC DIAGRAM (AMP SECTION)


AMP BOARD
SP TM BOARD
APS 2 BOARD
CONT AS-1 BOARD
CONT AS-2 BOARD
APS 1 BOARD
PS BOARD
SEC-A BOARD
SEC-B BOARD
SEC-C BOARD
PRIM-A BOARD
PRIM-B BOARD
AC SW BOARD
SURR BOARD CNJ501 (Page 20)
SURR BOARD CNJ502 (Page 20)
DISPLAY BOARD CNS100 (Page 31)
TM601 SURROUND SPEAKER IMPEDANCE USE 8-16 Ω
TM701 FRONT SPEAKER IMPEDANCE USE 8-16 Ω
Q701, 702 BIAS
Q703, 704 POWER AMP
Q705, 706 OVER LOAD DET
Q711-713 PROTECTOR
Q751, 752 BIAS
Q753, 754 POWER AMP
Q755, 756 OVERLOAD DET
Q601, 602 BIAS
Q603, 604 POWER AMP
Q605, 606 OVERLOAD DET
Q607 RELAY DRIVE
Q608 RELAY DRIVE
IC601 SURROUND POWER AMP
IC671 SURROUND POWER AMP
IC801 +12V REG
IC803 -12V REG
Q801 +39V REG
Q802 RELAY DRIVE
Q714 RELAY DRIVE
Q764 RELAY DRIVE
Q716-718 SWITCH
Q901 RELAY DRIVE
Q902 B+ SWITCH
IC901 RESET
J701 MIX OUT
S701 INPEDANCE SELECTOR
S901 POWER
T901 POWER TRANSFORMER
* NOT REPLACEABLE IN TRANSFORMER
10000/71V···AUS, D965:US, CND MODEL
10000/63V···D865, AEP, G MODEL
3300/35V···D865, AEP, G, AUS MODEL
4700/42V···D965:US, CND MODEL
330···D865, AEP, G MODEL
560···AUS, D965:US, CND MODEL
* R633, 634 330···D865, AEP, G, AUS MODEL 560···D965:US, CND MODEL
* F801, 802
T6.3AL 250V | AEP, G, AUS
6.3A 125V | US, CND
* F803, 804
4A 125V | D965:US, CND
T3.15AL 250V | AEP, G, AUS
3.15A 125V | D865
* F902
T2.5AL 250V | AEP, G, AUS
* F901
T3.15AL 250V | AEP, G, AUS
8A 125V | D965:US, CND
6.3A 125V | D865
AC OUTLET
ACIN



● SEMICONDUCTOR LOCATION

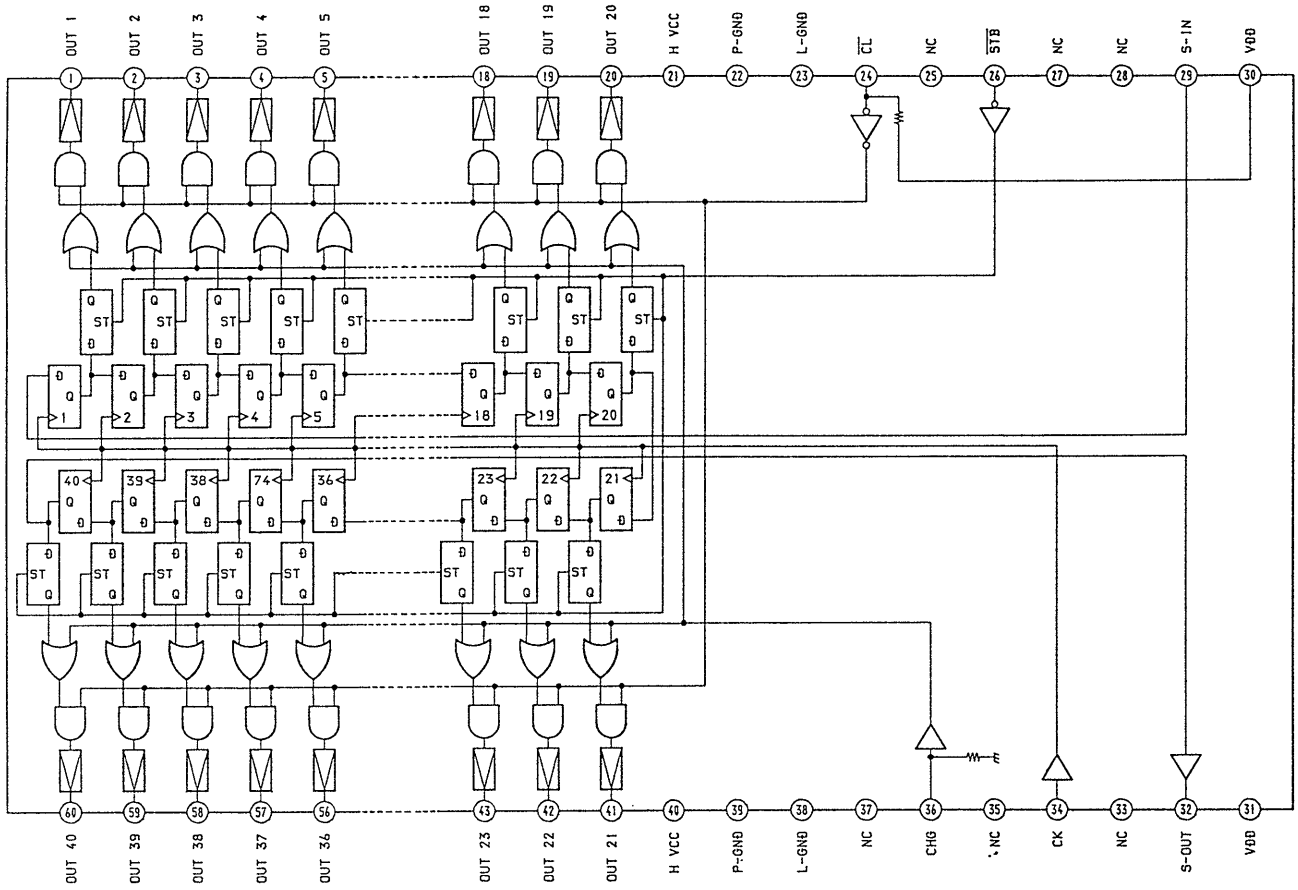
Ref. No.	Location	Ref. No.	Location
D601	D - 8	IC801	E - 4
D602	D - 8	IC851	E - 5
D603	D - 9	IC901	B - 5
D604	E - 9	IC903	C - 6
D605	D - 10	IC901	D - 22
D606	D - 8		
D607	A - 4	Q601	D - 9
D608	C - 4	Q602	E - 9
D631	B - 13	Q603	E - 8
D632	B - 13	Q604	E - 10
		Q605	D - 10
D701	D - 6		
D702	D - 5	Q606	D - 8
D703	D - 7	Q607	B - 4
D704	E - 7	Q608	B - 4
D705	D - 8	Q701	D - 7
		Q702	E - 6
D706	D - 6		
D710	D - 13	Q703	E - 6
D711	D - 13	Q704	E - 7
D712	J - 4	Q705	D - 8
D713	C - 13	Q706	D - 6
		Q711	D - 13
D714	C - 13		
D715	I - 13	Q712	D - 13
D716	C - 13	Q713	D - 13
D751	D - 11	Q714	J - 4
D752	D - 11	Q715	I - 4
		Q716	F - 4
D753	D - 12		
D754	E - 12	Q717	F - 4
D755	D - 12	Q718	F - 3
D756	D - 12	Q751	D - 12
D762	G - 4	Q752	E - 11
		Q753	E - 11
D763	C - 13		
D801	C - 13	Q754	E - 12
D802	B - 10	Q755	D - 13
D803	B - 8	Q756	D - 12
D804	B - 18	Q764	G - 4
		Q801	C - 13
D901	D - 23		
D902	D - 23	Q802	B - 11
D903	D - 23	Q901	C - 23
D904	D - 23	Q902	D - 23
D905	D - 23		
D906	D - 23		
D907	C - 23		
D908	C - 16		

Note:

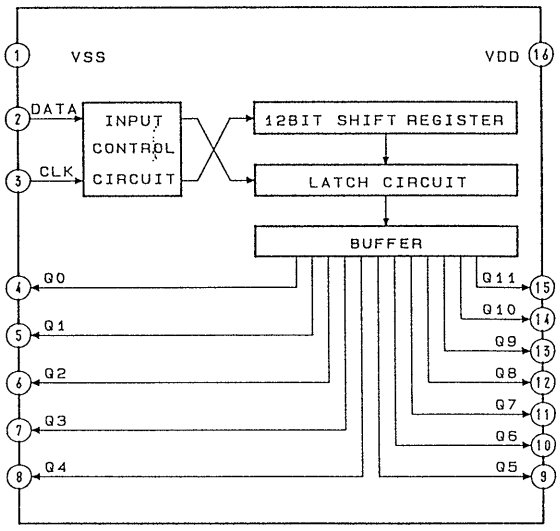
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
- ✱ Malaysia and Singapore model is the same as the AEP model.

• IC BLOCK DIAGRAM – DISPLAY SECTION –

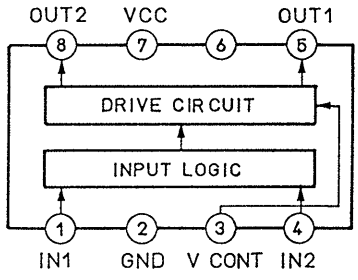
IC100, 105 TD62C950RF



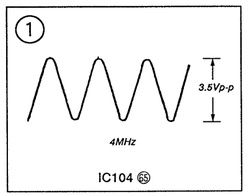
IC101 M50253P



IC103 LB1639



● WAVEFORM

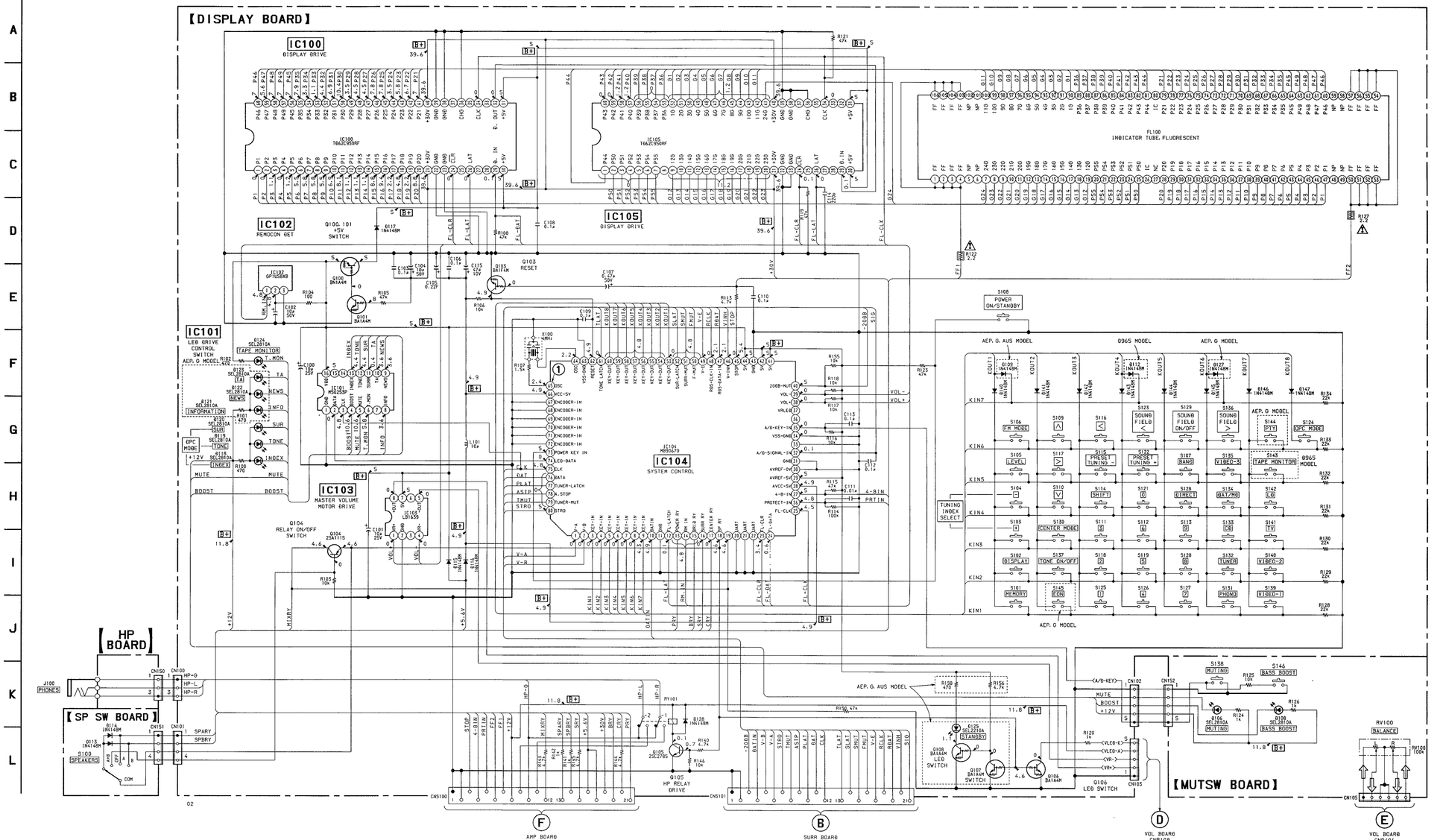


Note :

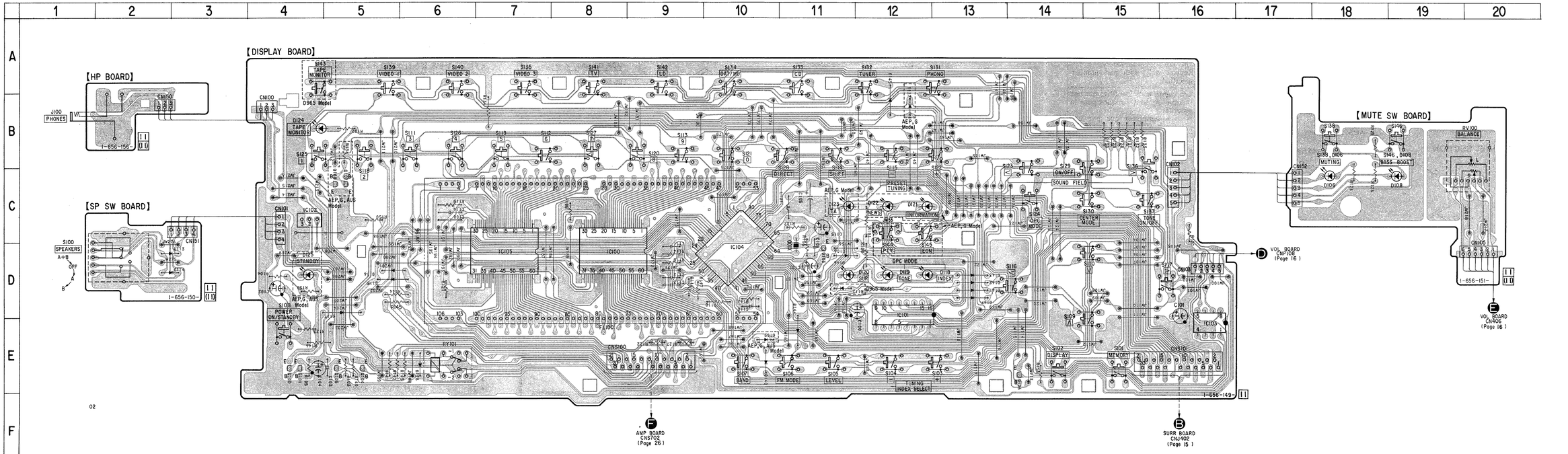
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  ∗ Malaysia and Singapore model is the same as the AEP model.



3-8. PRINTED WIRING BOARDS (DISPLAY SECTION)



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D106	C - 18	D125	D - 4	IC104	D - 10
D108	C - 19	D127	B - 12	IC105	D - 7
D109	E - 10	D128	E - 6		
D112	D - 11	D140	E - 10		
D113	D - 2	D141	D - 13	Q100	E - 4
				Q101	E - 4
D114	D - 2	D142	D - 13	Q103	D - 11
D115	D - 5	D143	D - 13	Q104	E - 5
D116	D - 5	D144	E - 11		
D117	D - 5	D145	D - 12	Q105	E - 5
D118	D - 12	D146	D - 11	Q106	E - 14
				Q107	C - 5
D119	D - 12	D147	D - 13	Q108	C - 5
D120	D - 11				
D121	C - 12				
D122	C - 12	IC100	D - 8		
D123	C - 11	IC101	D - 12		
		IC102	C - 4		
D124	B - 4	IC103	E - 16		

Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
- ∗ Malaysia and Singapore model is the same as the AEP model.

SECTION 4
EXPLODED VIEWS

NOTE :

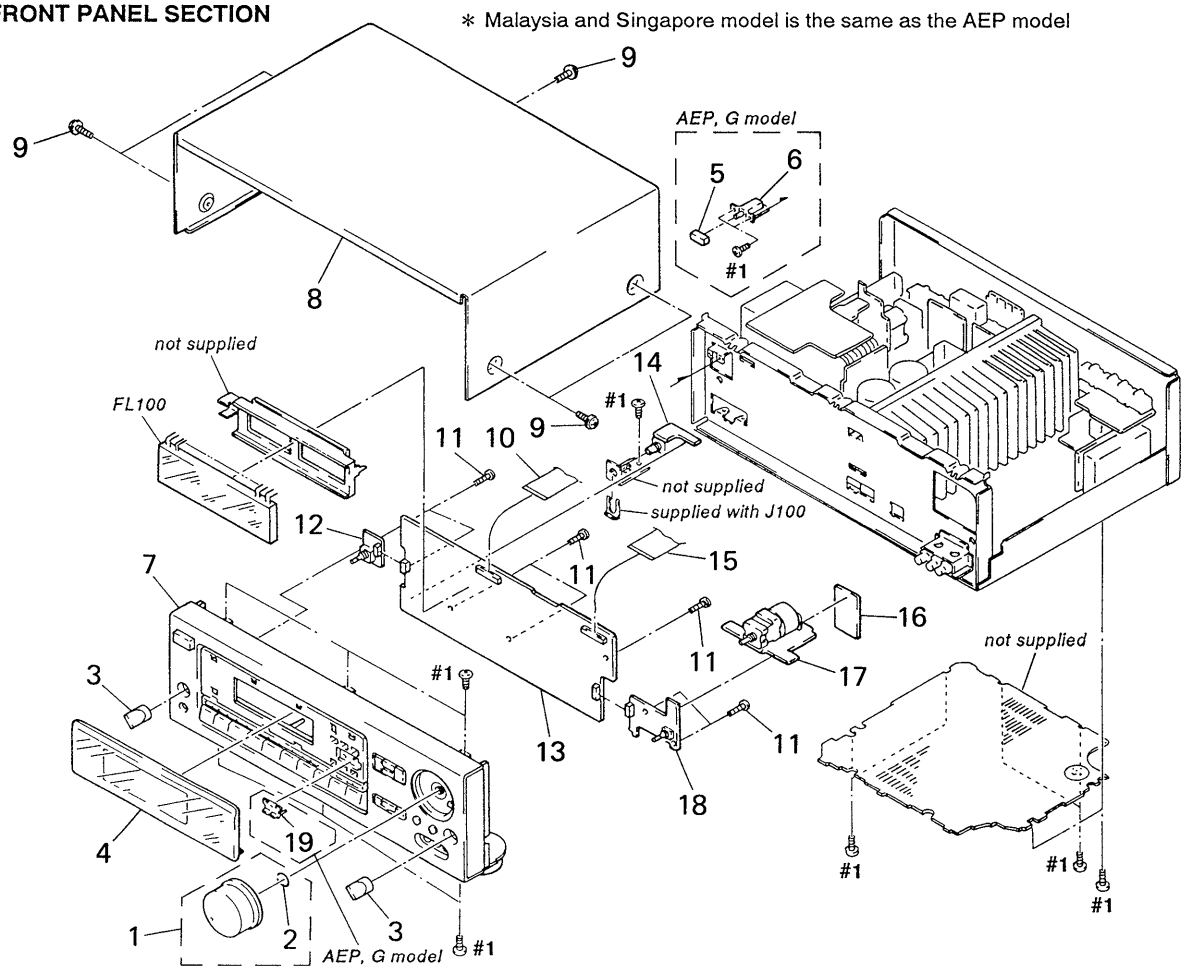
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. FRONT PANEL SECTION

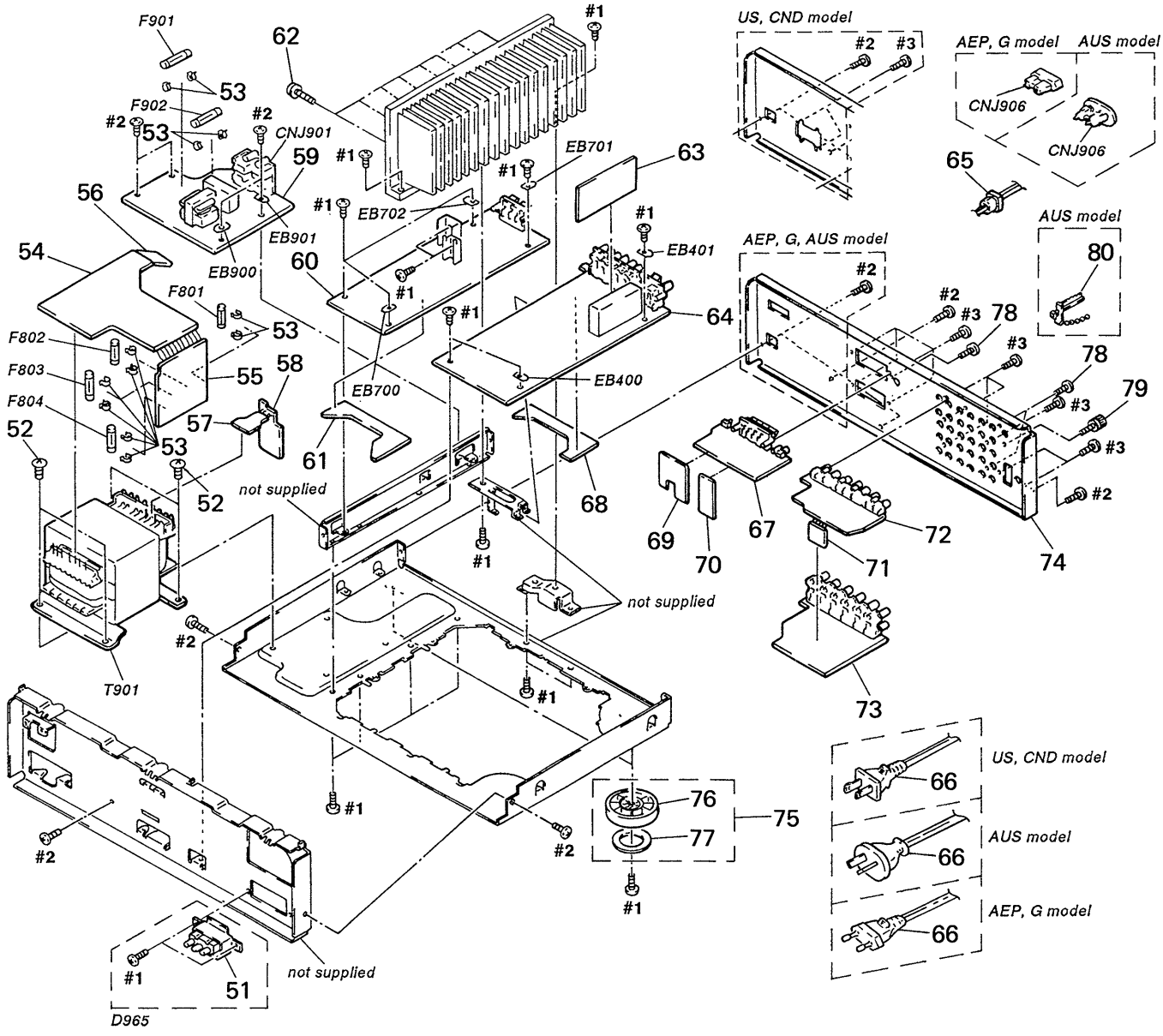
* Malaysia and Singapore model is the same as the AEP model



Ref. No.	Part No.	Description	Remark
1	X-4945-824-1	KNOB (VOL) ASSY	
2	3-350-426-01	SPRING, RING	
3	4-957-383-01	KNOB (F14)	
4	4-973-453-01	PLATE, INDICATION (US, CND)	
4	4-973-453-11	PLATE, INDICATION (AEP, G)	
4	4-973-453-21	PLATE, INDICATION (AUS)	
5	4-917-460-01	KNOB, POWER (AEP, G)	
* 6	1-656-404-11	AC SW BOARD, COMPLETE (AEP, G)	
7	X-4945-939-1	PANEL ASSY, FRONT (D865)	
7	X-4945-940-1	PANEL ASSY, FRONT (D965:US, CND)	
7	X-4945-941-1	PANEL ASSY, FRONT (D965:AEP, G)	
7	X-4946-060-1	PANEL ASSY, FRONT (D965:AUS)	
8	4-931-031-11	CASE	
9	3-704-366-01	SCREW (CASE) (M3×8)	

Ref. No.	Part No.	Description	Remark
10	1-773-718-11	WIRE (FLAT TYPE) (21 CORE)	
11	4-951-620-01	SCREW (2.6×8), +BVTP	
* 12	1-656-150-11	SPSW BOARD	
* 13	A-4377-581-A	DISPLAY BOARD, COMPLETE (D865)	
* 13	A-4377-740-A	DISPLAY BOARD, COMPLETE (D965:US, CND)	
* 13	A-4377-741-A	DISPLAY BOARD, COMPLETE (D965:AEP, G)	
* 13	A-4378-250-A	DISPLAY BOARD, COMPLETE (D965:AUS)	
* 14	1-656-156-11	H.P BOARD	
15	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
* 16	1-656-170-11	VS BOARD	
* 17	1-656-152-11	VOL BOARD	
* 18	1-656-151-11	MUTSW BOARD	
19	4-972-584-01	BUTTON (RDS) (AEP, G)	
FL100	1-517-402-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 51	1-656-157-11	VIDEO 3 BOARD (D965)	
52	4-381-962-11	SCREW +BVTT 4×8 (S)	
53	1-533-217-31	HOLDER, FUSE	
* 54	1-656-164-11	SEC-B BOARD	
* 55	1-656-167-11	SEC-A BOARD	
* 56	1-656-168-11	SEC-C BOARD	
* 57	1-656-165-11	PRIM-B BOARD	
* 58	1-656-158-11	PRIM-A BOARD	
* 59	1-656-163-11	PS BOARD	
* 60	A-4377-753-A	AMP BOARD, COMPLETE (D965:US, CND)	
* 60	A-4377-754-A	AMP BOARD, COMPLETE (D965:AEP, G)	
* 60	A-4377-771-A	AMP BOARD, COMPLETE (D865)	
* 60	A-4378-251-A	AMP BOARD, COMPLETE (D965:AUS)	
* 61	1-656-161-11	CONT AS-2 BOARD	
62	3-905-609-01	SCREW (TRANSISTOR)	
* 63	A-4377-745-A	PHONO BOARD, COMPLETE (US, CND, AUS)	
* 63	A-4377-746-A	PHONO BOARD, COMPLETE (AEP, G)	
* 64	A-4377-755-A	SURR BOARD, COMPLETE (D965:US, CND)	
* 64	A-4377-756-A	SURR BOARD, COMPLETE (D965:AEP, G)	
* 64	A-4377-757-A	SURR BOARD, COMPLETE (D965:AUS)	
* 64	A-4377-772-A	SURR BOARD, COMPLETE (D865)	
* 65	3-703-244-00	BUSHING (2104), CORD	
⚠66	1-696-847-11	CORD, POWER (AUS)	
⚠66	1-769-743-11	CORD, POWER (US, CND)	
⚠66	1-769-744-11	CORD, POWER (AEP, G)	
* 67	1-656-162-11	SPTM BOARD	
* 68	1-656-160-11	CONT AS-1 BOARD	
* 69	1-656-169-11	APS 1 BOARD	
* 70	1-657-677-11	APS 2 BOARD	
* 71	1-656-155-11	VIDEO-B BOARD	
* 72	1-656-154-11	VIDEO-A BOARD	
* 73	1-656-218-11	AUDIO 2F BOARD	
* 74	4-973-452-01	PANEL, BACK (D965:US)	
* 74	4-973-452-11	PANEL, BACK (D965:CND)	
* 74	4-973-452-21	PANEL, BACK (D965:AUS)	
* 74	4-973-452-31	PANEL, BACK (D965:AEP, G)	
* 74	4-973-452-41	PANEL, BACK (D865:US)	
* 74	4-973-452-51	PANEL, BACK (D865:CND)	
75	X-4941-291-1	FOOT ASSY (F58175S) (US, CND)	
75	X-4941-292-1	FOOT ASSY (F58175S) (AEP, G, AUS)	
76	3-318-688-31	FOOT (F58175S) (AEP, G, AUS)	
76	3-318-688-51	FOOT (F58175S) (US, CND)	
77	4-923-836-21	CUSHION	
78	3-704-515-01	SCREW (BV/RING)	
79	4-947-010-01	SCREW, FEEDER FIXED	
80	4-956-370-12	BAND, PLUG FIXED (AUS)	
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR) (US, CND)	
⚠CNJ906	1-251-078-11	OUTLET, AC (AUS)	
⚠CNJ906	1-526-794-11	OUTLET, AC (AEP, G)	
EB400	1-537-770-21	TERMINAL BOARD, GROUND	
EB401	1-537-770-21	TERMINAL BOARD, GROUND	
EB700	1-537-770-21	TERMINAL BOARD, GROUND	
EB701	1-537-770-21	TERMINAL BOARD, GROUND	
EB702	1-537-770-21	TERMINAL BOARD, GROUND	
EB900	1-537-770-21	TERMINAL BOARD, GROUND (US, CND)	
EB901	1-537-770-21	TERMINAL BOARD, GROUND (US, CND)	
⚠F801	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	
⚠F801	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F802	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	
⚠F802	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F803	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A 125V) (D965:US, CND)
⚠F803	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F804	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A 125V) (D965:US, CND)
⚠F804	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F901	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(8A 125V) (D965:US, CND)
⚠F902	1-532-286-00	FUSE (T2.5AL 250V) (D965:AEP, G, AUS)	
⚠T901	1-427-726-12	TRANSFORMER, POWER (D965:US)	
⚠T901	1-427-727-11	TRANSFORMER, POWER (D965:CND)	
⚠T901	1-427-728-11	TRANSFORMER, POWER (D965:AEP, G, AUS)	
⚠T901	1-427-729-12	TRANSFORMER, POWER (D865:US)	
⚠T901	1-427-730-12	TRANSFORMER, POWER (D865:CND)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
ELECTRICAL PARTS LIST

AC SW **AMP**

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

* Malaysia and Singapore model is the same as the AEP model

Ref. No.	Part No.	Description			Remark
*	1-656-404-11	AC SW BOARD, COMPLETE (AEP, G)			
		**********			
		< CAPACITOR >			
⚠C912	1-161-744-51	CERAMIC 0.01uF		400V	(AEP, G)
		< CONNECTOR >			
CNP907	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			(AEP, G)
		< SWITCH >			
⚠S901	1-572-267-21	SWITCH, PUSH (AC POWER) (1 KEY)			(POWER) (AEP, G)
**********					
*	A-4377-753-A	AMP BOARD, COMPLETE (D965:US, CND)			
*	A-4377-771-A	AMP BOARD, COMPLETE (D865)			
*	A-4377-754-A	AMP BOARD, COMPLETE (D965:AEP, G)			
*	A-4378-251-A	AMP BOARD, COMPLETE (D965:AUS)			
		**********			
		< TERMINAL BOARD >			
	1-537-770-21	TERMINAL BOARD, GROUND			
		< CAPACITOR >			
C601	1-104-664-11	ELECT	47uF	20% 16V	
C602	1-107-597-11	CERAMIC	22PF	10% 500V	
C603	1-107-597-11	CERAMIC	22PF	10% 500V	
C604	1-136-157-00	FILM	0.022uF	5% 50V	
C605	1-164-159-11	CERAMIC	0.1uF	50V	
C606	1-164-159-11	CERAMIC	0.1uF	50V	
C610	1-164-159-11	CERAMIC	0.1uF	50V	
C611	1-164-096-11	CERAMIC	0.01uF	50V	
C612	1-164-096-11	CERAMIC	0.01uF	50V	(AEP, G)
C621	1-126-963-11	ELECT	4.7uF	20% 50V	
C622	1-162-282-31	CERAMIC	100PF	10% 50V	
C623	1-162-282-31	CERAMIC	100PF	10% 50V	
C624	1-124-443-00	ELECT	100uF	20% 10V	
C626	1-136-157-00	FILM	0.022uF	5% 50V	
C656	1-126-963-11	ELECT	4.7uF	20% 50V	
C661	1-164-096-11	CERAMIC	0.01uF	50V	
C671	1-126-963-11	ELECT	4.7uF	20% 50V	
C672	1-162-282-31	CERAMIC	100PF	10% 50V	
C673	1-162-282-31	CERAMIC	100PF	10% 50V	
C674	1-124-443-00	ELECT	100uF	20% 10V	
C676	1-136-157-00	FILM	0.022uF	5% 50V	
C701	1-104-664-11	ELECT	47uF	20% 16V	
C702	1-107-597-11	CERAMIC	22PF	10% 500V	
C703	1-107-597-11	CERAMIC	22PF	10% 500V	
C704	1-136-157-00	FILM	0.022uF	5% 50V	
C705	1-164-159-11	CERAMIC	0.1uF	50V	
C706	1-164-159-11	CERAMIC	0.1uF	50V	
C711	1-126-941-11	ELECT	470uF	20% 6.3V	
C712	1-124-463-00	ELECT	0.1uF	20% 50V	
C751	1-104-664-11	ELECT	47uF	20% 16V	
C752	1-107-597-11	CERAMIC	22PF	10% 500V	
C753	1-107-597-11	CERAMIC	22PF	10% 500V	
C754	1-136-157-00	FILM	0.022uF	5% 50V	
C755	1-164-159-11	CERAMIC	0.1uF	50V	
C756	1-164-159-11	CERAMIC	0.1uF	50V	
C801	1-124-907-11	ELECT	10uF	20% 50V	
C802	1-126-967-11	ELECT	47uF	20% 35V	
C803	1-125-729-11	ELECT	10000uF	20% 63V	(D865, AEP, G)
C803	1-109-932-11	ELECT	10000uF	20% 71V	(D965:US, CND, AUS)
C804	1-125-729-11	ELECT	10000uF	20% 63V	(D865, AEP, G)
C804	1-109-932-11	ELECT	10000uF	20% 71V	(D965:US, CND, AUS)

AMP

Ref. No.	Part No.	Description			Remark
C805	1-137-420-11	FILM	0.047uF	10% 100V	
C806	1-137-420-11	FILM	0.047uF	10% 100V	
C807	1-104-664-11	ELECT	47uF	20% 16V	
C808	1-104-664-11	ELECT	47uF	20% 16V	
C811	1-126-413-11	ELECT	3300uF	20% 35V	(D865, AEP, G, AUS)
C811	1-126-224-11	ELECT	4700uF	20% 42V	(D965:US, CND)
C812	1-126-413-11	ELECT	3300uF	20% 35V	(D865, AEP, G, AUS)
C812	1-126-224-11	ELECT	4700uF	20% 42V	(D965:US, CND)
C813	1-136-495-11	FILM	0.068uF	5% 50V	
C814	1-136-495-11	FILM	0.068uF	5% 50V	
C815	1-126-967-11	ELECT	47uF	20% 35V	
C816	1-126-967-11	ELECT	47uF	20% 35V	
		< CONNECTOR >			
CNJ601	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNJ701	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
* CNJ802	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P			
CNJ803	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P			
CNP702	1-770-481-11	PIN, CONNECTOR 4P			
* CNP801	1-560-259-00	CONNECTOR PIN, WITH LOCK 6P			
CNS702	1-764-926-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
		< DIODE >			
D601	8-719-987-63	DIODE	1N4148M		
D602	8-719-010-06	DIODE	UZ-2.2BS		
D603	8-719-010-06	DIODE	UZ-2.2BS		
D604	8-719-987-63	DIODE	1N4148M		
D605	8-719-815-85	DIODE	1S1585		
D606	8-719-815-85	DIODE	1S1585		
D607	8-719-987-63	DIODE	1N4148M		
D608	8-719-987-63	DIODE	1N4148M		
D631	8-719-987-63	DIODE	1N4148M		
D632	8-719-987-63	DIODE	1N4148M		
D701	8-719-987-63	DIODE	1N4148M		
D702	8-719-010-06	DIODE	UZ-2.2BS		
D703	8-719-010-06	DIODE	UZ-2.2BS		
D704	8-719-987-63	DIODE	1N4148M		
D705	8-719-815-85	DIODE	1S1585		
D706	8-719-815-85	DIODE	1S1585		
D710	8-719-815-85	DIODE	1S1585		
D711	8-719-815-85	DIODE	1S1585		
D713	8-719-987-63	DIODE	1N4148M		
D714	8-719-987-63	DIODE	1N4148M		
D716	8-719-987-63	DIODE	1N4148M		
D751	8-719-987-63	DIODE	1N4148M		
D752	8-719-010-06	DIODE	UZ-2.2BS		
D753	8-719-010-06	DIODE	UZ-2.2BS		
D754	8-719-987-63	DIODE	1N4148M		
D755	8-719-815-85	DIODE	1S1585		
D756	8-719-815-85	DIODE	1S1585		
D763	8-719-987-63	DIODE	1N4148M		
D801	8-719-002-76	DIODE	UZL-36H		
D802	8-719-302-38	DIODE	RBV-602-01		
D803	8-719-025-03	DIODE	RBA-402-SL		
		< IC >			
IC601	8-759-069-56	IC	LM3875		
IC651	8-759-069-56	IC	LM3875		
IC801	8-759-263-43	IC	TA78M12S		
IC803	8-759-604-45	IC	M5F79M12L		
		< COIL >			
L601	1-420-872-00	COIL, AIR-CORE			
L602	1-420-872-00	COIL, AIR-CORE			
L652	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q601	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q602	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q603	8-749-010-25	IC	MN2488-OPY-M		
Q604	8-749-010-26	IC	MP1620-OPY-M		
Q605	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q606	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q607	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q608	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q702	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q703	8-749-010-25	IC	MN2488-OPY-M		
Q704	8-749-010-26	IC	MP1620-OPY-M		
Q705	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q706	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q711	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q712	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q713	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q751	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q752	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q753	8-749-010-25	IC	MN2488-OPY-M		
Q754	8-749-010-26	IC	MP1620-OPY-M		
Q755	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q756	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
Q801	8-729-140-96	TRANSISTOR	2SD774-34		
Q802	8-729-119-79	TRANSISTOR	2SC2785-FEK		

AMP

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R600	1-249-437-11	CARBON	47K	5%	1/4W
⚠R601	1-249-393-11	CARBON	10	5%	1/4W F
R603	1-249-421-11	CARBON	2.2K	5%	1/4W
R604	1-249-414-11	CARBON	560	5%	1/4W
⚠R605	1-249-393-11	CARBON	10	5%	1/4W F
⚠R606	1-233-352-21	ENCAPSULATED COMPONENT	0.22	2W F	
R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R608	1-249-421-11	CARBON	2.2K	5%	1/4W
R609	1-249-431-11	CARBON	15K	5%	1/4W
R610	1-249-425-11	CARBON	4.7K	5%	1/4W
R611	1-249-421-11	CARBON	2.2K	5%	1/4W
R612	1-249-431-11	CARBON	15K	5%	1/4W
⚠R613	1-249-389-11	CARBON	4.7	5%	1/4W F
R614	1-249-439-11	CARBON	68K	5%	1/4W
⚠R615	1-249-393-11	CARBON	10	5%	1/4W F
R617	1-249-438-11	CARBON	56K	5%	1/4W
R618	1-249-393-11	CARBON	10	5%	1/4W
R619	1-249-393-11	CARBON	10	5%	1/4W (AEP, G)
R621	1-249-438-11	CARBON	56K	5%	1/4W
R623	1-249-411-11	CARBON	330	5%	1/4W
R624	1-249-438-11	CARBON	56K	5%	1/4W
⚠R625	1-249-389-11	CARBON	4.7	5%	1/4W F
R626	1-249-438-11	CARBON	56K	5%	1/4W
⚠R627	1-249-393-11	CARBON	10	5%	1/4W F
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R633	1-249-411-11	CARBON	330	5%	1/4W F (D865, AEP, G, AUS)
⚠R633	1-249-414-11	CARBON	560	5%	1/4W F (D965:US, CND)
⚠R634	1-249-411-11	CARBON	330	5%	1/4W F (D865, AEP, G, AUS)
⚠R634	1-249-414-11	CARBON	560	5%	1/4W F (D965:US, CND)
R635	1-249-429-11	CARBON	10K	5%	1/4W
R636	1-249-425-11	CARBON	4.7K	5%	1/4W
R668	1-249-393-11	CARBON	10	5%	1/4W
R671	1-249-438-11	CARBON	56K	5%	1/4W
R673	1-249-411-11	CARBON	330	5%	1/4W
R674	1-249-438-11	CARBON	56K	5%	1/4W
⚠R675	1-249-389-11	CARBON	4.7	5%	1/4W F
R676	1-249-437-11	CARBON	47K	5%	1/4W
⚠R677	1-249-393-11	CARBON	10	5%	1/4W F
R700	1-249-437-11	CARBON	47K	5%	1/4W
⚠R701	1-249-393-11	CARBON	10	5%	1/4W F
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-249-414-11	CARBON	560	5%	1/4W
⚠R705	1-249-393-11	CARBON	10	5%	1/4W F

Ref. No.	Part No.	Description			Remark
⚠R706	1-233-352-21	ENCAPSULATED COMPONENT	0.22	2W F	
R707	1-249-425-11	CARBON	4.7K	5%	1/4W
R708	1-249-421-11	CARBON	2.2K	5%	1/4W
R709	1-249-431-11	CARBON	15K	5%	1/4W
R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R711	1-249-421-11	CARBON	2.2K	5%	1/4W
R712	1-249-431-11	CARBON	15K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
⚠R715	1-249-393-11	CARBON	10	5%	1/4W F
R719	1-215-868-00	METAL OXIDE	680	5%	1W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-435-11	CARBON	33K	5%	1/4W
R723	1-249-427-11	CARBON	6.8K	5%	1/4W
R727	1-249-417-11	CARBON	1K	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-249-437-11	CARBON	47K	5%	1/4W
⚠R751	1-249-393-11	CARBON	10	5%	1/4W F
R753	1-249-421-11	CARBON	2.2K	5%	1/4W
R754	1-249-414-11	CARBON	560	5%	1/4W
⚠R755	1-249-393-11	CARBON	10	5%	1/4W F
⚠R756	1-233-352-21	ENCAPSULATED COMPONENT	0.22	2W F	
R757	1-249-425-11	CARBON	4.7K	5%	1/4W
R758	1-249-421-11	CARBON	2.2K	5%	1/4W
R759	1-249-431-11	CARBON	15K	5%	1/4W
R760	1-249-425-11	CARBON	4.7K	5%	1/4W
R761	1-249-421-11	CARBON	2.2K	5%	1/4W
R762	1-249-431-11	CARBON	15K	5%	1/4W
R764	1-249-438-11	CARBON	56K	5%	1/4W
⚠R765	1-249-393-11	CARBON	10	5%	1/4W F
R769	1-215-868-00	METAL OXIDE	680	5%	1W
R801	1-249-423-11	CARBON	3.3K	5%	1/4W
⚠R802	1-249-409-11	CARBON	220	5%	1/4W F
R803	1-215-883-11	METAL OXIDE	33	5%	2W
R804	1-215-883-11	METAL OXIDE	33	5%	2W
R806	1-215-883-11	METAL OXIDE	33	5%	2W
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
⚠R809	1-249-405-11	CARBON	100	5%	1/4W F
⚠R810	1-249-405-11	CARBON	100	5%	1/4W F
⚠R812	1-249-411-11	CARBON	330	5%	1/4W F (D865, AEP, G, AUS)
⚠R812	1-249-414-11	CARBON	560	5%	1/4W F (D965:US, CND)
R813	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US, CND)
R814	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US, CND)
R815	1-215-883-11	METAL OXIDE	33	5%	2W
R816	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US, CND)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

AMP APS 1 APS 2 AUDIO 2F CONT AS-1 CONT AS-2 DISPLAY

Ref. No.	Part No.	Description				Remark
R817	1-215-883-11	METAL OXIDE	33	5%	2W	(D965:US, CND)
		< RELAY >				
RY601	1-515-765-11	RELAY				
RY602	1-515-533-11	RELAY				
		< TERMINAL >				
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P)				(SURROUND SPEAKER)
**********						
*	1-656-169-11	APS 1 BOARD				
		**********				
		< CONNECTOR >				
CNP704	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P				
CNP803	1-770-407-11	CONNECTOR, BOARD TO BOARD 12P				
CNP905	1-770-379-11	CONNECTOR, BOARD TO BOARD 6P				
**********						
*	1-657-677-11	APS 2 BOARD				
		**********				
		< CONNECTOR >				
CNJ702	1-770-569-11	SOCKET 4P				
CNP703	1-770-481-11	PIN, CONNECTOR 4P				
**********						
*	1-656-218-11	AUDIO 2F BOARD				
		**********				
		< CAPACITOR >				
C208	1-126-963-11	ELECT	4.7uF	20%	50V	(US, CND, AUS)
C319-324						
	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP, G)
C369-374						
	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP, G)
C395	1-162-282-31	CERAMIC	100PF	10%	50V	
C396	1-162-294-31	CERAMIC	0.001uF	10%	50V	
		< CONNECTOR >				
CNJ302	1-695-096-11	SOCKET, CONNECTOR 15P				
CNP301	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P				
		< IC >				
IC304	8-759-805-14	IC LC7822				
		< JACK >				
J303	1-691-887-11	JACK, PIN 6P (LD, TV, VIDEO 2)				
J304	1-580-825-11	JACK, PIN 6P (VIDEO 1, VIDEO 2)				
		< RESISTOR >				
R322-327						
	1-249-417-11	CARBON	1K	5%	1/4W	
R372-377						
	1-249-417-11	CARBON	1K	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-425-11	CARBON	4.7K	5%	1/4W	
**********						
*	1-656-160-11	CONT AS-1 BOARD				
		**********				
		< CONNECTOR >				
CNP501	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
CNP701	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
**********						
*	1-656-161-11	CONT AS-2 BOARD				
		**********				
		< CONNECTOR >				
CNP502	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
CNP601	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P				
		< RESISTOR >				
R662	1-249-417-11	CARBON	1K	5%	1/4W	
R672	1-249-417-11	CARBON	1K	5%	1/4W	
**********						
*	A-4378-250-A	DISPLAY BOARD, COMPLETE (D965:AUS)				
*	A-4377-740-A	DISPLAY BOARD, COMPLETE (D965:US, CND)				
*	A-4377-741-A	DISPLAY BOARD, COMPLETE (D965:AEP, G)				
*	A-4377-581-A	DISPLAY BOARD, COMPLETE (D865)				
		**********				
		< CAPACITOR >				
C100	1-136-173-00	FILM	0.47uF	5%	50V	
C101	1-126-096-11	ELECT	10uF	20%	35V	
C102	1-124-261-00	ELECT	10uF	20%	50V	
C103	1-164-159-11	CERAMIC	0.1uF		50V	
C104	1-124-261-00	ELECT	10uF	20%	50V	
C105	1-104-905-11	CAP, DOUBLE LAYERS			0.22F	5.5V
C106	1-164-159-11	CERAMIC	0.1uF		50V	
C107	1-136-173-00	FILM	0.47uF	5%	50V	
C108-110						
	1-164-159-11	CERAMIC	0.1uF		50V	
C111	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C112	1-164-159-11	CERAMIC	0.1uF		50V	
C113	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description				Remark
C114	1-162-286-31	CERAMIC	220PF	10%	50V	
C115	1-124-589-11	ELECT	47uF	20%	16V	
		< CONNECTOR >				
CN100	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P				
* CN101	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				
* CN102	1-565-481-11	CONNECTOR, BOARD TO BOARD 5P				
CN103	1-770-398-11	HOUSING, CONNECTOR (PC BOARD) 5P				
CNS100	1-766-034-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P				
CNS101	1-766-034-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P				
		< DIODE >				
D109	8-719-987-63	DIODE 1N4148M (AEP, G, AUS)				
D112	8-719-987-63	DIODE 1N4148M (D965)				
D115-117	8-719-987-63	DIODE 1N4148M				
D118	8-719-301-49	LED SEL6810A (DPC MODE INDEX)				
D119	8-719-301-49	LED SEL6810A (DPC MODE TONE)				
D120	8-719-301-49	LED SEL6810A (DPC MODE SUR)				
D121	8-719-301-49	LED SEL6810A (INFORMATION) (AEP, G)				
D122	8-719-301-49	LED SEL6810A (NEWS) (AEP, G)				
D123	8-719-301-49	LED SEL6810A (TA) (AEP, G)				
D124	8-719-301-49	LED SEL6810A (TAPE MONITOR)				
D125	8-719-313-43	LED SEL6210S-TH10 (STANDBY)				(AEP, G, AUS)
D127	8-719-987-63	DIODE 1N4148M (AEP, G)				
D128	8-719-987-63	DIODE 1N4148M				
D140-147	8-719-987-63	DIODE 1N4148M				
		< INDICATOR TUBE >				
FL100	1-517-402-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC100	8-759-075-35	IC TD62C950RF				
IC101	8-759-635-31	IC M50253P				
IC102	8-749-923-11	IC GP1U58XB				
IC103	8-759-820-62	IC LB1639				
IC104	8-759-353-91	IC MB90673PF-104				
IC105	8-759-075-35	IC TD62C950RF				
		< COIL >				
L101	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q100	8-729-422-57	TRANSISTOR UN4111				
Q101	8-729-900-80	TRANSISTOR DTC114ES				
Q103	8-729-900-36	TRANSISTOR DTC124ES				

Ref. No.	Part No.	Description				Remark
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q105	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q106	8-729-900-80	TRANSISTOR DTC114ES				
Q107	8-729-900-80	TRANSISTOR DTC114ES				(AEP, G, AUS)
Q108	8-729-900-80	TRANSISTOR DTC114ES				(AEP, G, AUS)
		< RESISTOR >				
R100-102	1-249-413-11	CARBON	470	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R104	1-247-807-31	CARBON	100	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-429-11	CARBON	10K	5%	1/4W	
R107	1-249-419-11	CARBON	1.5K	5%	1/4W	
R108	1-249-437-11	CARBON	47K	5%	1/4W	
R113	1-249-425-11	CARBON	4.7K	5%	1/4W	
R114	1-249-441-11	CARBON	100K	5%	1/4W	
R115	1-249-437-11	CARBON	47K	5%	1/4W	
R116-118	1-249-429-11	CARBON	10K	5%	1/4W	
R119	1-249-437-11	CARBON	47K	5%	1/4W	
R120	1-249-417-11	CARBON	1K	5%	1/4W	
R121	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R122	1-249-385-11	CARBON	2.2	5%	1/6W F	
R123	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R127	1-249-385-11	CARBON	2.2	5%	1/6W F	
R128-134	1-249-433-11	CARBON	22K	5%	1/4W	
R140	1-249-425-11	CARBON	4.7K	5%	1/4W	
R141	1-249-417-11	CARBON	1K	5%	1/4W	
R142	1-249-417-11	CARBON	1K	5%	1/4W	
R143-145	1-249-425-11	CARBON	4.7K	5%	1/4W	
R146	1-249-429-11	CARBON	10K	5%	1/4W	
R150	1-249-437-11	CARBON	47K	5%	1/4W	
R155	1-249-429-11	CARBON	10K	5%	1/4W	
R156	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, G, AUS)
R158	1-249-413-11	CARBON	470	5%	1/4W	(AEP, G, AUS)
		< RELAY >				
RY101	1-515-614-11	RELAY				
		< SWITCH >				
S101	1-554-303-21	SWITCH, TACTILE (MEMORY)				
S102	1-554-303-21	SWITCH, TACTILE (DISPLAY)				
S103	1-554-303-21	SWITCH, TACTILE (TUNING/INDEX SELECT +)				
S104	1-554-303-21	SWITCH, TACTILE (TUNING/INDEX SELECT -)				
S105	1-554-303-21	SWITCH, TACTILE (LEVEL)				
S106	1-554-303-21	SWITCH, TACTILE (FM MODE)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DISPLAY | H.P | MUTE SW | PHONO

Ref. No.	Part No.	Description	Remark
S107	1-554-303-21	SWITCH, TACTILE (BAND)	
S108	1-554-303-21	SWITCH, TACTILE (POWER ON/STANDBY)	
S109	1-554-303-21	SWITCH, TACTILE (∧)	
S110	1-554-303-21	SWITCH, TACTILE (∨)	
S111	1-554-303-21	SWITCH, TACTILE (3)	
S112	1-554-303-21	SWITCH, TACTILE (6)	
S113	1-554-303-21	SWITCH, TACTILE (9)	
S114	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S115	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)	
S116	1-554-303-21	SWITCH, TACTILE (<)	
S117	1-554-303-21	SWITCH, TACTILE (>)	
S118	1-554-303-21	SWITCH, TACTILE (2)	
S119	1-554-303-21	SWITCH, TACTILE (5)	
S120	1-554-303-21	SWITCH, TACTILE (8)	
S121	1-554-303-21	SWITCH, TACTILE (0)	
S122	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)	
S123	1-554-303-21	SWITCH, TACTILE (SOUND FIELD <)	
S124	1-554-303-21	SWITCH, TACTILE (DPC MODE)	
S125	1-554-303-21	SWITCH, TACTILE (1)	
S126	1-554-303-21	SWITCH, TACTILE (4)	
S127	1-554-303-21	SWITCH, TACTILE (7)	
S128	1-554-303-21	SWITCH, TACTILE (DIRECT)	
S129	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)	
S130	1-554-303-21	SWITCH, TACTILE (CENTER MODE)	
S131	1-554-303-21	SWITCH, TACTILE (PHONO)	
S132	1-554-303-21	SWITCH, TACTILE (TUNER)	
S133	1-554-303-21	SWITCH, TACTILE (CD)	
S134	1-554-303-21	SWITCH, TACTILE (DAT/MD)	
S135	1-554-303-21	SWITCH, TACTILE (VIDEO 3)	
S136	1-554-303-21	SWITCH, TACTILE (SOUND FIELD >)	
S137	1-554-303-21	SWITCH, TACTILE (TONE ON/OFF)	
S139	1-554-303-21	SWITCH, TACTILE (VIDEO 1)	
S140	1-554-303-21	SWITCH, TACTILE (VIDEO 2)	
S141	1-554-303-21	SWITCH, TACTILE (TV)	
S142	1-554-303-21	SWITCH, TACTILE (LD)	
S143	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR) (D965)	
S144	1-554-303-21	SWITCH, TACTILE (PTY) (AEP, G)	
S145	1-554-303-21	SWITCH, TACTILE (EON) (AEP, G)	
		< VIBRATOR >	
X100	1-567-819-11	VIBRATOR, CERAMIC (4MHz)	
**********			
*	1-656-156-11	H.P BOARD	
		*********	
		< CONNECTOR >	
CN150	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P	
		< JACK >	
J100	1-568-519-41	JACK, LARGE TYPE (PHONES)	
**********			
*	1-656-151-11	MUTE SW BOARD	
		**********	
		< CONNECTOR >	
CN105	1-770-399-11	HOUSING, CONNECTOR (PC BOARD) 6P	
* CN152	1-569-799-11	PLUG, CONNECTOR 5P	
		< DIODE >	
D106	8-719-301-49	LED SEL6810A (MUTING)	
D108	8-719-301-49	LED SEL6810A (BASS BOOST)	
		< RESISTOR >	
R124	1-249-417-11	CARBON 1K 5% 1/4W	
R125	1-249-429-11	CARBON 10K 5% 1/4W	
R126	1-249-417-11	CARBON 1K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV100	1-223-880-11	RES, VAR, CARBON 100K/100K (BALANCE)	
		< SWITCH >	
S138	1-554-303-21	SWITCH, TACTILE (MUTING)	
S146	1-554-303-21	SWITCH, TACTILE (BASS BOOST)	
**********			
*	A-4377-746-A	PHONO BOARD, COMPLETE (AEP, G)	
*	A-4377-745-A	PHONO BOARD, COMPLETE (US, CND, AUS)	
		**********	
		< CAPACITOR >	
C300	1-162-286-31	CERAMIC 220PF 10% 50V (AEP, G)	
C303	1-162-282-31	CERAMIC 100PF 10% 50V	
C304	1-124-477-11	ELECT 47uF 20% 25V	
C305	1-130-480-00	MYLAR 0.0056uF 5% 50V	
C306	1-130-473-00	MYLAR 0.0015uF 5% 50V	
C307	1-124-903-11	ELECT 1uF 20% 50V	
C308	1-164-159-11	CERAMIC 0.1uF 50V	
C350	1-162-286-31	CERAMIC 220PF 10% 50V (AEP, G)	
C353	1-162-282-31	CERAMIC 100PF 10% 50V	
C354	1-124-477-11	ELECT 47uF 20% 25V	
C355	1-130-480-00	MYLAR 0.0056uF 5% 50V	
C356	1-130-473-00	MYLAR 0.0015uF 5% 50V	
C357	1-124-903-11	ELECT 1uF 20% 50V	
C358	1-164-159-11	CERAMIC 0.1uF 50V	
C458	1-124-907-11	ELECT 10uF 20% 50V (AEP, G)	

Ref. No.	Part No.	Description			Remark
C460	1-164-159-11	CERAMIC	0.1uF		50V (AEP, G)
C461	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, G)
C462	1-124-925-11	ELECT	2.2uF	20%	100V (AEP, G)
C463	1-162-288-31	CERAMIC	330PF	10%	50V (AEP, G)
C466	1-162-291-31	CERAMIC	560PF	10%	50V (AEP, G)
C467	1-162-280-31	CERAMIC	82PF	10%	50V (AEP, G)
C468	1-162-215-31	CERAMIC	47PF	5%	50V (AEP, G)
C469	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, G)
		< CONNECTOR >			
CNJ303	1-695-095-11	SOCKET, CONNECTOR 13P			
CNJ304	1-695-095-11	SOCKET, CONNECTOR 13P			
CNP302	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P			
		< IC >			
IC301	8-759-634-51	IC M5218AP			
IC404	8-759-634-51	IC M5218AP (AEP, G)			
IC405	8-759-169-99	IC SAA6579 (AEP, G)			
		< RESISTOR >			
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R354	1-249-416-11	CARBON	820	5%	1/4W
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R421	1-249-433-11	CARBON	22K	5%	1/4W (AEP, G)
R422	1-249-426-11	CARBON	5.6K	5%	1/4W (AEP, G)
R424	1-249-441-11	CARBON	100K	5%	1/4W (AEP, G)
R425	1-249-441-11	CARBON	100K	5%	1/4W (AEP, G)
R426	1-249-409-11	CARBON	220	5%	1/4W (AEP, G)
R427	1-249-409-11	CARBON	220	5%	1/4W (AEP, G)
R428	1-249-421-11	CARBON	2.2K	5%	1/4W (AEP, G)
		< VIBRATOR >			
X402	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP, G)			

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Ref. No.	Part No.	Description			Remark
*	1-656-158-11	PRIM-A BOARD			
		**********			
		< CONNECTOR >			
CNJ902	1-770-568-11	SOCKET 3P			

****

*	1-656-165-11	PRIM-B BOARD			
		**********			

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*	1-656-163-11	PS BOARD			
		********			
	1-533-217-31	HOLDER, FUSE			
		< TERMINAL BOARD >			
	1-537-770-21	TERMINAL BOARD, GROUND (US, CND)			
		< CAPACITOR >			
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-124-557-11	ELECT	1000uF	20%	25V
C904	1-124-903-11	ELECT	1uF	20%	50V
C905	1-124-902-00	ELECT	0.47uF	20%	50V
C906	1-124-464-11	ELECT	0.22uF	20%	50V
⚠C910	1-161-741-00	CERAMIC	0.001uF	10%	400V (AEP, G)
⚠C911	1-161-741-00	CERAMIC	0.001uF	10%	400V (AEP, G)
C913	1-164-159-11	CERAMIC	0.1uF		50V
		< JACK >			
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR) (US, CND)			
		< CONNECTOR >			
CNJ905	1-770-412-11	CONNECTOR, BOARD TO BOARD 6P			
* CNP902	1-564-751-11	PIN, CONNECTOR (WITH LOCK) 2P			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
* CNP904	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P (AEP, G, AUS)			
CNP908	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AEP, G)			
		< DIODE >			
D901-904	8-719-024-99	DIODE 11ES2-NTA2B			
D905-907	8-719-987-63	DIODE 1N4148M			
		< FUSE >			
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)			(AEP, G, AUS)

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PS SEC-A SEC-B SEC-C SP SW SP TM

Ref. No.	Part No.	Description	Remark
⚠F901	1-532-748-11	FUSE, GLASS TUBE 6.3A 125V (D865)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (D965:US, CND)	
⚠F902	1-532-286-00	FUSE (T2.5AL 250V) (AEP, G, AUS)	
		< IC >	
IC901	8-759-333-83	IC NJM2103D	
		< TRANSISTOR >	
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q902	8-729-030-18	TRANSISTOR 2SD2525	
		< RESISTOR >	
⚠R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US, CND)	
R902	1-249-429-11	CARBON 10K 5% 1/4W	
R903	1-249-425-11	CARBON 4.7K 5% 1/4W	
R904	1-249-417-11	CARBON 1K 5% 1/4W	
R905	1-249-429-11	CARBON 10K 5% 1/4W	
R906	1-247-840-00	CARBON 2.4K 5% 1/4W	
R908	1-249-433-11	CARBON 22K 5% 1/4W	
R909	1-249-439-11	CARBON 68K 5% 1/4W	
R910	1-249-429-11	CARBON 10K 5% 1/4W	
R911	1-249-417-11	CARBON 1K 5% 1/4W	
R912	1-249-423-11	CARBON 3.3K 5% 1/4W	
		< RELAY >	
⚠RY901	1-515-999-11	RELAY, POWER	
		< TRANSFORMER >	
⚠T902	1-450-361-11	TRANSFORMER, POWER (US, CND)	
⚠T902	1-450-358-11	TRANSFORMER, POWER (AEP, G, AUS)	
**********			
*	1-656-167-11	SEC-A BOARD **********	
	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
CNJ801	1-750-552-11	SOCKET 6P	
* CNP802	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
		< DIODE >	
D804	8-719-987-63	DIODE 1N4148M	
D908	8-719-014-66	DIODE UZP-5.6B	
		< FUSE >	
⚠F801	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	

Ref. No.	Part No.	Description	Remark
⚠F801	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F802	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	
⚠F802	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F803	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V) (D965:AEP, G, AUS)	
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4.0A 125V) (D965:US, CND)	
⚠F803	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F803	1-576-108-11	FUSE (4.0A 125V) (D965:US, CND)	
⚠F804	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V) (D965:AEP, G, AUS)	
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4.0A 125V) (D965:US, CND)	
⚠F804	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F804	1-576-108-11	FUSE (4.0A 125V) (D965:US, CND)	
		< RELAY >	
RY801	1-755-026-11	RELAY (US, AEP, G, AUS)	
RY851	1-515-918-11	RELAY (CND)	
RY852	1-515-918-11	RELAY (CND)	
**********			
*	1-656-164-11	SEC-B BOARD **********	
**********			
*	1-656-168-11	SEC-C BOARD **********	
**********			
*	1-656-150-11	SP SW BOARD **********	
		< CONNECTOR >	
* CN151	1-565-295-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D113	8-719-987-63	DIODE 1N4148M	
D114	8-719-987-63	DIODE 1N4148M	
		< SWITCH >	
S100	1-762-268-11	SWITCH, ROTARY (SPEAKERS)	
**********			
*	1-656-162-11	SP TM BOARD **********	
		< CAPACITOR >	
C015	1-164-096-11	CERAMIC 0.01uF 50V (AEP, G)	

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Ref. No.	Part No.	Description			Remark
C016	1-164-096-11	CERAMIC	0.01uF		50V (AEP, G)
C019	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C065	1-164-096-11	CERAMIC	0.01uF		50V (AEP, G)
C066	1-164-096-11	CERAMIC	0.01uF		50V (AEP, G)
		< CONNECTOR >			
CNJ703	1-770-569-11	SOCKET 4P			
CNJ704	1-695-092-11	SOCKET, CONNECTOR 7P			
		< DIODE >			
D712	8-719-987-63	DIODE	1N4148M		
D762	8-719-987-63	DIODE	1N4148M		
		< JACK >			
J701	1-770-377-21	JACK, PIN 1P (MIX OUT)			
		< COIL >			
L701	1-420-872-00	COIL, AIR-CORE			
L751	1-420-872-00	COIL, AIR-CORE			
		< TRANSISTOR >			
Q714	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q716	8-729-900-80	TRANSISTOR	DTC114ES (D865)		
Q717	8-729-119-76	TRANSISTOR	2SA1175-HFE (D865)		
Q718	8-729-900-80	TRANSISTOR	DTC114ES (D865)		
Q764	8-729-119-79	TRANSISTOR	2SC2785-FEK		
		< RESISTOR >			
R002	1-249-393-11	CARBON	10	5%	1/4W (AEP, G)
R003	1-249-393-11	CARBON	10	5%	1/4W (AEP, G)
R052	1-249-393-11	CARBON	10	5%	1/4W (AEP, G)
R053	1-249-393-11	CARBON	10	5%	1/4W (AEP, G)
⚠R713	1-249-389-11	CARBON	4.7	5%	1/4W F
R718	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-249-429-11	CARBON	10K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R726	1-249-411-11	CARBON	330	5%	1/4W F (D865, AEP, G)
⚠R726	1-249-414-11	CARBON	560	5%	1/4W F (D965:US, CND, AUS)
R730-732	1-249-438-11	CARBON	56K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W (D865)
R734	1-249-429-11	CARBON	10K	5%	1/4W (D865)
⚠R763	1-249-389-11	CARBON	4.7	5%	1/4W F
R774	1-249-429-11	CARBON	10K	5%	1/4W
R775	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R776	1-249-411-11	CARBON	330	5%	1/4W F (D865, AEP, G)
⚠R776	1-249-414-11	CARBON	560	5%	1/4W F (D965:US, CND, AUS)

Ref. No.	Part No.	Description			Remark
		< RELAY >			
RY701	1-515-765-11	RELAY			
RY702	1-515-765-11	RELAY			
		< SWITCH >			
S701	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			(D965:US, CND, AUS)
		< TERMINAL >			
TM701	1-537-376-11	TERMINAL BOARD (SP) (FRONT SPEAKER)			
**********					
*	A-4377-755-A	SURR BOARD, COMPLETE (D965:US, CND)			
*	A-4377-756-A	SURR BOARD, COMPLETE (D965:AEP, G)			
*	A-4377-757-A	SURR BOARD, COMPLETE (D965:AUS)			
*	A-4377-772-A	SURR BOARD, COMPLETE (D865)			
		**********			
		< CAPACITOR >			
C301	1-126-163-11	ELECT	4.7uF	20%	50V
C302	1-164-073-11	CERAMIC	100PF	10%	50V (EXCEPT AUS)
C310	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C311-313	1-126-163-11	ELECT	4.7uF	20%	50V
C314	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C315	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C316	1-164-159-11	CERAMIC	0.1uF		50V
C317	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C318	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-164-073-11	CERAMIC	100PF	10%	50V (EXCEPT AUS)
C360	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C361-363	1-126-163-11	ELECT	4.7uF	20%	50V
C364	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C365	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C366	1-164-159-11	CERAMIC	0.1uF		50V
C367	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C368	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, G)
C397	1-164-073-11	CERAMIC	100PF	10%	50V
C398	1-164-085-11	CERAMIC	0.001uF	10%	50V
C400	1-162-282-31	CERAMIC	100PF	10%	50V
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-136-157-00	FILM	0.022uF	5%	50V
C404	1-136-161-00	FILM	0.047uF	5%	50V (EXCEPT AUS)
C404	1-136-160-00	FILM	0.039uF	5%	50V (AUS)
C405	1-104-666-11	ELECT	220uF	20%	10V

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SURR

Ref.No.	Part No.	Description			Remark
C406-409					
	1-124-907-11	ELECT	10uF	20% 50V	
C410	1-104-666-11	ELECT	220uF	20% 10V	
C411	1-126-962-11	ELECT	3.3uF	20% 50V	
C412	1-126-962-11	ELECT	3.3uF	20% 50V	
C413	1-136-165-00	FILM	0.1uF	5% 50V	
C414	1-136-165-00	FILM	0.1uF	5% 50V	
C415	1-124-902-00	ELECT	0.47uF	20% 50V	
C416	1-126-963-11	ELECT	4.7uF	20% 50V	
C417	1-124-902-00	ELECT	0.47uF	20% 50V	
C418	1-126-963-11	ELECT	4.7uF	20% 50V	
C419	1-124-250-11	ELECT	0.15uF	20% 50V	
C420	1-126-962-11	ELECT	3.3uF	20% 50V	
C421	1-124-250-11	ELECT	0.15uF	20% 50V	
C422	1-162-282-31	CERAMIC	100PF	10% 50V	
C423	1-104-664-11	ELECT	47uF	20% 16V	
C424	1-136-165-00	FILM	0.1uF	5% 50V	
C425	1-136-165-00	FILM	0.1uF	5% 50V	
C426	1-124-902-00	ELECT	0.47uF	20% 50V	
C427	1-126-963-11	ELECT	4.7uF	20% 50V	
C428	1-126-963-11	ELECT	4.7uF	20% 50V	
C429	1-124-250-11	ELECT	0.15uF	20% 50V	
C430	1-124-902-00	ELECT	0.47uF	20% 50V	
C431	1-126-962-11	ELECT	3.3uF	20% 50V	
C432	1-124-250-11	ELECT	0.15uF	20% 50V	
C433	1-104-666-11	ELECT	220uF	20% 10V	
C434	1-104-664-11	ELECT	47uF	20% 16V	
C435	1-164-159-11	CERAMIC	0.1uF	50V	
C436	1-124-925-11	ELECT	2.2uF	20% 100V	
C437	1-104-666-11	ELECT	220uF	20% 10V	
C438	1-136-165-00	FILM	0.1uF	5% 50V	
C439	1-124-907-11	ELECT	10uF	20% 50V	
C440	1-130-469-00	MYLAR	680PF	5% 50V	
C441	1-126-962-11	ELECT	3.3uF	20% 50V	
C442	1-126-963-11	ELECT	4.7uF	20% 50V	
C443	1-164-159-11	CERAMIC	0.1uF	50V	
C444	1-126-963-11	ELECT	4.7uF	20% 50V	
C445	1-164-159-11	CERAMIC	0.1uF	50V	
C446	1-164-159-11	CERAMIC	0.1uF	50V	
C447	1-136-173-00	FILM	0.47uF	5% 50V	
C448	1-126-963-11	ELECT	4.7uF	20% 50V	
C449	1-162-215-31	CERAMIC	47PF	5% 50V	
C450	1-162-215-31	CERAMIC	47PF	5% 50V	
C451	1-164-159-11	CERAMIC	0.1uF	50V	
C452	1-104-666-11	ELECT	220uF	20% 10V	
C453	1-136-159-00	FILM	0.033uF	5% 50V	
C454	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C455	1-136-159-00	FILM	0.033uF	5% 50V	
C456	1-124-903-11	ELECT	1uF	20% 50V	

Ref.No.	Part No.	Description			Remark
C457	1-104-666-11	ELECT	220uF	20% 10V	
C461	1-164-159-11	CERAMIC	0.1uF	50V	
C462	1-164-159-11	CERAMIC	0.1uF	50V	
C470	1-162-215-31	CERAMIC	47PF	5% 50V	
C472	1-126-963-11	ELECT	4.7uF	20% 50V	(EXCEPT AUS)
C472	1-124-477-11	ELECT	47uF	20% 25V	(AUS)
C473	1-126-963-11	ELECT	4.7uF	20% 50V	(EXCEPT AUS)
C473	1-124-477-11	ELECT	47uF	20% 25V	(AUS)
C491	1-126-962-11	ELECT	3.3uF	20% 50V	
C492	1-126-963-11	ELECT	4.7uF	20% 50V	
C493	1-164-159-11	CERAMIC	0.1uF	50V	
C494	1-126-963-11	ELECT	4.7uF	20% 50V	
C495	1-164-159-11	CERAMIC	0.1uF	50V	
C501	1-126-963-11	ELECT	4.7uF	20% 50V	
C502	1-164-073-11	CERAMIC	100PF	10% 50V	
C503	1-102-989-00	CERAMIC	68PF	5% 500V	(EXCEPT AUS)
C503	1-164-077-11	CERAMIC	220PF	10% 50V	(AUS)
C504	1-102-989-00	CERAMIC	68PF	5% 500V	
C505	1-124-443-00	ELECT	100uF	20% 10V	
C506	1-136-159-00	FILM	0.033uF	5% 50V	
C507	1-136-171-00	FILM	0.33uF	5% 50V	
C508	1-124-910-11	ELECT	47uF	20% 50V	
C509	1-136-495-11	FILM	0.068uF	5% 50V	
C510	1-136-153-00	FILM	0.01uF	5% 50V	
C511	1-130-476-00	MYLAR	0.0027uF	5% 50V	
C512	1-136-157-00	FILM	0.022uF	5% 50V	
C513	1-164-046-11	CERAMIC	10PF	0.5PF 50V	
C514	1-164-046-11	CERAMIC	10PF	0.5PF 50V	
C521	1-126-963-11	ELECT	4.7uF	20% 50V	
C522	1-164-073-11	CERAMIC	100PF	10% 50V	
C523	1-104-664-11	ELECT	47uF	20% 16V	
C524	1-102-989-00	CERAMIC	68PF	5% 500V	
C525	1-102-989-00	CERAMIC	68PF	5% 500V	
C526	1-164-040-11	CERAMIC	4PF	0.25PF 50V	
C551	1-126-963-11	ELECT	4.7uF	20% 50V	
C552	1-164-073-11	CERAMIC	100PF	10% 50V	
C553	1-102-989-00	CERAMIC	68PF	5% 500V	(EXCEPT AUS)
C553	1-164-077-11	CERAMIC	220PF	10% 50V	(AUS)
C554	1-102-989-00	CERAMIC	68PF	5% 500V	
C555	1-124-443-00	ELECT	100uF	20% 10V	
C556	1-136-159-00	FILM	0.033uF	5% 50V	
C557	1-136-171-00	FILM	0.33uF	5% 50V	
C558	1-124-910-11	ELECT	47uF	20% 50V	
C559	1-136-495-11	FILM	0.068uF	5% 50V	
C560	1-136-153-00	FILM	0.01uF	5% 50V	
C561	1-130-476-00	MYLAR	0.0027uF	5% 50V	
C562	1-136-157-00	FILM	0.022uF	5% 50V	
C563	1-164-046-11	CERAMIC	10PF	0.5PF 50V	
C564	1-164-046-11	CERAMIC	10PF	0.5PF 50V	

Ref.No.	Part No.	Description			Remark
C593	1-124-916-11	ELECT	22uF	20% 63V	(D865, AEP, G, AUS)
C593	1-124-929-11	ELECT	22uF	20% 100V	(D965:US, CND)
C594	1-124-916-11	ELECT	22uF	20% 63V	(D865, AEP, G, AUS)
C594	1-124-929-11	ELECT	22uF	20% 100V	(D965:US, CND)
C595	1-164-159-11	CERAMIC	0.1uF	50V	
C596	1-104-664-11	ELECT	47uF	20% 16V	
C597	1-104-664-11	ELECT	47uF	20% 16V	
C598	1-162-282-31	CERAMIC	100PF	10% 50V	
		< CONNECTOR >			
CNJ299	1-770-832-11	CONNECTOR, BOARD TO BOARD 6P (D965)			
CNJ402	1-764-926-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
CNJ501	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNJ502	1-770-404-11	HOUSING, CONNECTOR (PC BOARD) 11P			
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP304	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP404	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
		< DIODE >			
D401	8-719-001-30	DIODE	UZL-9H3		
D402	8-719-987-63	DIODE	1N4148M		
D403	8-719-024-99	DIODE	11ES2-NTA2B		
		< TERMINAL BOARD >			
EB400	1-537-770-21	TERMINAL BOARD, GROUND			
EB401	1-537-770-21	TERMINAL BOARD, GROUND			
		< IC >			
IC302	8-759-634-50	IC	M5218AL		
IC303	8-759-634-50	IC	M5218AL		
IC305	8-759-805-14	IC	LC7822		
IC401	8-759-248-74	IC	LA2785		
IC402	8-759-341-23	IC	LV1011		
IC403	8-759-634-51	IC	M5218AP		
IC406	8-759-634-51	IC	M5218AP		
IC501	8-749-920-70	IC	STK-3102-MK3		
IC502	8-759-072-32	IC	TC9184P		
IC503	8-749-011-16	IC	STK350-230		
		< JACK >			
J301	1-691-887-11	JACK, PIN 6P			(PHONO IN, CD IN, DAT/MD IN)
J302	1-580-825-11	JACK, PIN 6P			(TAPE IN/REC OUT, DAT/MD REC OUT)

Ref.No.	Part No.	Description			Remark
		< COIL >			
L401	1-410-509-11	INDUCTOR	10uH		
L402	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q301	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q302	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q401	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q402	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q403	8-729-140-96	TRANSISTOR	2SD774-34		
Q404-407	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q408	8-729-900-63	TRANSISTOR	DTA124ES		
Q409-411	8-729-900-63	TRANSISTOR	DTA124ES		
Q501	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q502	8-729-202-67	TRANSISTOR	2SK246-GR3		
Q551	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q552	8-729-202-67	TRANSISTOR	2SK246-GR3		
		< RESISTOR >			
R300	1-249-418-11	CARBON	1.2K	5% 1/4W	(AEP, G)
R301	1-249-409-11	CARBON	220	5% 1/4W	
R302	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT AUS)
R310	1-249-421-11	CARBON	2.2K	5% 1/4W	
R311-314	1-249-417-11	CARBON	1K	5% 1/4W	
R315	1-249-441-11	CARBON	100K	5% 1/4W	
R316	1-249-437-11	CARBON	47K	5% 1/4W	
R317	1-249-437-11	CARBON	47K	5% 1/4W	
R318	1-249-441-11	CARBON	100K	5% 1/4W	
R319	1-249-417-11	CARBON	1K	5% 1/4W	
R320	1-249-425-11	CARBON	4.7K	5% 1/4W	
R321	1-249-429-11	CARBON	10K	5% 1/4W	
R350	1-249-418-11	CARBON	1.2K	5% 1/4W	(AEP, G)
R351	1-249-409-11	CARBON	220	5% 1/4W	
R352	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT AUS)
R360	1-249-421-11	CARBON	2.2K	5% 1/4W	
R361-364	1-249-417-11	CARBON	1K	5% 1/4W	
R365	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT AUS)
R365	1-249-437-11	CARBON	47K	5% 1/4W	(AUS)
R366	1-249-437-11	CARBON	47K	5% 1/4W	
R367	1-249-437-11	CARBON	47K	5% 1/4W	
R368	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT AUS)
R368	1-249-437-11	CARBON	47K	5% 1/4W	(AUS)
R369	1-249-417-11	CARBON	1K	5% 1/4W	
R370	1-249-425-11	CARBON	4.7K	5% 1/4W	

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Ref. No.	Part No.	Description				Remark
R371	1-249-429-11	CARBON	10K	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R398	1-249-425-11	CARBON	4.7K	5%	1/4W	
R401	1-249-417-11	CARBON	1K	5%	1/4W	
R402	1-249-417-11	CARBON	1K	5%	1/4W	
R403	1-247-807-31	CARBON	100	5%	1/4W	
R404	1-247-807-31	CARBON	100	5%	1/4W	
R405	1-249-425-11	CARBON	4.7K	5%	1/4W	
R406	1-249-425-11	CARBON	4.7K	5%	1/4W	
R407	1-249-417-11	CARBON	1K	5%	1/4W	
R408	1-249-431-11	CARBON	15K	5%	1/4W	
R409	1-249-407-11	CARBON	150	5%	1/4W	
R410	1-249-436-11	CARBON	39K	5%	1/4W	
R411	1-249-439-11	CARBON	68K	5%	1/4W	
R412	1-247-903-00	CARBON	1M	5%	1/4W	
R413	1-249-441-11	CARBON	100K	5%	1/4W	
R414	1-249-429-11	CARBON	10K	5%	1/4W	
R415	1-249-433-11	CARBON	22K	5%	1/4W	
R416	1-249-413-11	CARBON	470	5%	1/4W	
R417	1-249-425-11	CARBON	4.7K	5%	1/4W	
R418	1-249-413-11	CARBON	470	5%	1/4W	
R419	1-249-425-11	CARBON	4.7K	5%	1/4W	
R430	1-249-441-11	CARBON	100K	5%	1/4W	
R431	1-249-437-11	CARBON	47K	5%	1/4W	
R432	1-249-441-11	CARBON	100K	5%	1/4W	
R433	1-249-437-11	CARBON	47K	5%	1/4W	
R434	1-249-441-11	CARBON	100K	5%	1/4W	
R435	1-249-437-11	CARBON	47K	5%	1/4W	
R436	1-249-437-11	CARBON	47K	5%	1/4W	
R437	1-249-416-11	CARBON	820	5%	1/4W	
R438	1-249-429-11	CARBON	10K	5%	1/4W	
R440	1-249-429-11	CARBON	10K	5%	1/4W	
R441	1-249-429-11	CARBON	10K	5%	1/4W	
R442	1-249-435-11	CARBON	33K	5%	1/4W	
R443	1-249-433-11	CARBON	22K	5%	1/4W	
R444	1-249-433-11	CARBON	22K	5%	1/4W	
R445	1-249-429-11	CARBON	10K	5%	1/4W	
R446	1-249-417-11	CARBON	1K	5%	1/4W	
R463	1-249-441-11	CARBON	100K	5%	1/4W	
R464	1-249-429-11	CARBON	10K	5%	1/4W	
R465	1-249-429-11	CARBON	10K	5%	1/4W	
R466	1-249-413-11	CARBON	470	5%	1/4W	
R467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R468	1-249-413-11	CARBON	470	5%	1/4W	
R469	1-249-425-11	CARBON	4.7K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-441-11	CARBON	100K	5%	1/4W	
R503	1-249-413-11	CARBON	470	5%	1/4W	
R504	1-249-440-11	CARBON	82K	5%	1/4W	
R505	1-249-433-11	CARBON	22K	5%	1/4W	
R506	1-249-413-11	CARBON	470	5%	1/4W	
R507	1-249-427-11	CARBON	6.8K	5%	1/4W	
R508	1-247-883-00	CARBON	150K	5%	1/4W	
R509	1-249-423-11	CARBON	3.3K	5%	1/4W	
R510	1-247-903-00	CARBON	1M	5%	1/4W	
R511	1-249-441-11	CARBON	100K	5%	1/4W	
R512	1-249-426-11	CARBON	5.6K	5%	1/4W	
R513	1-249-441-11	CARBON	100K	5%	1/4W	
R515	1-249-434-11	CARBON	27K	5%	1/4W	
R516	1-249-426-11	CARBON	5.6K	5%	1/4W	
R517	1-249-418-11	CARBON	1.2K	5%	1/4W	
R518	1-249-415-11	CARBON	680	5%	1/4W	
R519	1-249-431-11	CARBON	15K	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R523	1-249-438-11	CARBON	56K	5%	1/4W	
R524	1-249-413-11	CARBON	470	5%	1/4W	
R525	1-249-412-11	CARBON	390	5%	1/4W	
R526	1-249-438-11	CARBON	56K	5%	1/4W	
R551	1-249-417-11	CARBON	1K	5%	1/4W	
R552	1-249-441-11	CARBON	100K	5%	1/4W	
R553	1-249-413-11	CARBON	470	5%	1/4W	
R554	1-249-440-11	CARBON	82K	5%	1/4W	
R555	1-249-433-11	CARBON	22K	5%	1/4W	
R556	1-249-413-11	CARBON	470	5%	1/4W	
R557	1-249-427-11	CARBON	6.8K	5%	1/4W	
R558	1-247-883-00	CARBON	150K	5%	1/4W	
R559	1-249-423-11	CARBON	3.3K	5%	1/4W	
R560	1-247-903-00	CARBON	1M	5%	1/4W	
R561	1-249-441-11	CARBON	100K	5%	1/4W	
R562	1-249-426-11	CARBON	5.6K	5%	1/4W	
R563	1-249-441-11	CARBON	100K	5%	1/4W	
R565	1-249-434-11	CARBON	27K	5%	1/4W	
R566	1-249-426-11	CARBON	5.6K	5%	1/4W	
R567	1-249-418-11	CARBON	1.2K	5%	1/4W	
R568	1-249-415-11	CARBON	680	5%	1/4W	
R569	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R592	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R593	1-249-397-11	CARBON	22	5%	1/4W	F
R594	1-247-903-00	CARBON	1M	5%	1/4W	
R595	1-249-425-11	CARBON	4.7K	5%	1/4W	
R596	1-249-419-11	CARBON	1.5K	5%	1/4W	
R597	1-249-419-11	CARBON	1.5K	5%	1/4W	
R598	1-249-425-11	CARBON	4.7K	5%	1/4W	
R599	1-249-417-11	CARBON	1K	5%	1/4W	

< TERMINAL >

TM401	1-537-734-11	TERMINAL BOARD, ANT (ANTENNA) (US, CND)
TM401	1-537-714-11	TERMINAL BOARD (ANTENNA) (AEP, G, AUS)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				Remark
		< TUNER UNIT >				
TU401	1-693-286-11	TUNER (FCC) (US, CND)				
TU401	1-693-287-11	TUNER (AEP, G, AUS)				
		< VIBRATOR >				
X401	1-579-952-21	VIBRATOR, CERAMIC (8MHz)				
**********						
*	1-656-157-11	VIDEO 3 BOARD (D965)				
		**********				
		< CAPACITOR >				
C299	1-164-159-11	CERAMIC	0.1uF		50V	(D965)
		< CONNECTOR >				
CNP299	1-770-831-11	CONNECTOR, BOARD TO BOARD 6P (D965)				
		< JACK >				
J299	1-770-340-11	JACK BLOCK, PIN (L TYPE) 3P (VIDEO 3) (D965)				
		< RESISTOR >				
R299	1-249-403-11	CARBON	68	5%	1/4W	(D965)
**********						
*	1-656-154-11	VIDEO-A BOARD				
		**********				
		< CAPACITOR >				
C201-204						
	1-124-903-11	ELECT	1uF	20%	50V	
C205-207						
	1-124-907-11	ELECT	10uF	20%	50V	
C209	1-104-665-11	ELECT	100uF	20%	16V	
C211	1-104-665-11	ELECT	100uF	20%	16V	
C212-215						
	1-164-159-11	CERAMIC	0.1uF		50V	
		< IC >				
IC201	8-759-061-95	IC SN761200				
		< JACK >				
J201	1-695-317-21	JACK, PIN 2P (LD, MONITOR)				
J202	1-766-199-11	JACK, PIN 3P (VIDEO 2, TV)				
J203	1-695-317-21	JACK, PIN 2P (VIDEO 1)				
		< COIL >				
L201	1-410-521-11	INDUCTOR	100uH			
L202	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q201	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q202	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q203-205						
	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q206	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q207	8-729-620-05	TRANSISTOR	2SC2603-EF			
		< RESISTOR >				
R201-206						
	1-249-403-11	CARBON	68	5%	1/4W	
R207	1-249-430-11	CARBON	12K	5%	1/4W	
R208	1-249-419-11	CARBON	1.5K	5%	1/4W	
R209	1-249-426-11	CARBON	5.6K	5%	1/4W	
R210	1-249-403-11	CARBON	68	5%	1/4W	
R211	1-249-403-11	CARBON	68	5%	1/4W	
R212	1-249-430-11	CARBON	12K	5%	1/4W	
R213	1-249-419-11	CARBON	1.5K	5%	1/4W	
R214	1-249-426-11	CARBON	5.6K	5%	1/4W	
R215	1-249-403-11	CARBON	68	5%	1/4W	
R216	1-249-403-11	CARBON	68	5%	1/4W	
R217	1-249-426-11	CARBON	5.6K	5%	1/4W	
R218	1-249-419-11	CARBON	1.5K	5%	1/4W	
R219	1-249-430-11	CARBON	12K	5%	1/4W	
R220	1-247-807-31	CARBON	100	5%	1/4W	
R250	1-249-417-11	CARBON	1K	5%	1/4W	
R251	1-249-429-11	CARBON	10K	5%	1/4W	
**********						
*	1-656-155-11	VIDEO-B BOARD				
		**********				
		< CONNECTOR >				
CNJ301	1-695-092-11	SOCKET, CONNECTOR 7P				
**********						
*	1-656-152-11	VOL BOARD				
		*********				
		< CONNECTOR >				
CNJ405	1-695-095-11	SOCKET, CONNECTOR 13P				
CNP108	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P				
CNP406	1-770-390-11	PIN, CONNECTOR (PC BOARD) 6P				
		< VARIABLE RESISTOR >				
RV401	1-241-816-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)				
**********						

VS

Ref. No.	Part No.	Description	Remark
*	1-656-170-11	VS BOARD	
		********	
		< CONNECTOR >	
CNJ404	1-695-095-11	SOCKET, CONNECTOR 13P	
CNP405	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P	
**********			
		MISCELLANEOUS	
		**********	
10	1-773-718-11	WIRE (FLAT TYPE) (21 CORE)	
15	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
⚠66	1-696-847-11	CORD, POWER (AUS)	
⚠66	1-769-743-11	CORD, POWER (US, CND)	
⚠66	1-769-744-11	CORD, POWER (AEP, G)	
⚠CNJ906	1-251-078-11	OUTLET, AC (AUS)	
⚠CNJ906	1-526-794-11	OUTLET, AC (AEP, G)	
⚠F801	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	
⚠F801	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F802	1-532-506-51	FUSE (T6.3AL 250V) (AEP, G, AUS)	
⚠F802	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (US, CND)	
⚠F803	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A 125V) (D965:US, CND)
⚠F803	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F804	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(4A 125V) (D965:US, CND)
⚠F804	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP, G, AUS)
⚠F901	1-532-748-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(8A 125V) (D965:US, CND)
⚠F902	1-532-286-00	FUSE (T2.5AL 250V) (D965:AEP, G, AUS)	
⚠T901	1-427-726-12	TRANSFORMER, POWER (D965:US)	
⚠T901	1-427-727-11	TRANSFORMER, POWER (D965:CND)	
⚠T901	1-427-728-11	TRANSFORMER, POWER (D965:AEP, G, AUS)	
⚠T901	1-427-729-12	TRANSFORMER, POWER (D865:US)	
⚠T901	1-427-730-12	TRANSFORMER, POWER (D865:CND)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-068-11	COMMANDER, STANDARD (RM-P351)	(D865:CND, D965)
	1-473-070-11	COMMANDER, STANDARD (RM-U251)	(D865:US)
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (AEP, G, AUS)	
	3-798-892-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH)	(AEP)
	3-798-892-21	MANUAL, INSTRUCTION (ENGLISH)	(US, CND)
	3-798-892-31	MANUAL, INSTRUCTION (FRENCH)	(CND)
	3-798-892-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, DANISH, FINNISH, POLISH)	(AEP)
	3-798-892-51	MANUAL, INSTRUCTION (GERMAN)	(G)
	3-798-892-61	MANUAL, INSTRUCTION (ENGLISH)	(AUS)
	4-925-079-11	COVER (6), BATTERY	(FOR REMOTE COMMANDER)
*	4-952-676-01	CUSHION	
*	4-975-572-01	INDIVIDUAL CARTON	(D965:US, CND, AUS)
*	4-975-573-01	INDIVIDUAL CARTON	(AEP, G)
*	4-975-574-01	INDIVIDUAL CARTON	(D865)
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-09	SCREW +BVTT 3×8 (S)	
#2	7-682-548-04	SCREW +BVTT 3×8 (S)	
#3	7-685-646-79	SCREW +BVTP 3×8 TYPE2 IT-3	

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9-960-215-11

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Consumer A&V Products Company
Home A&V Products Div.

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STR-D865/D965

SONY

SERVICE MANUAL

US Model
Canadian Model
STR-D865/D965

AEP Model
Australian Model
Malaysia Model
Singapore Model
STR-D965

SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject :
- **DIAGRAM**
- **EXPLODED VIEWS**
- **ELECTRICAL PARTS LIST**

(ECN-TA503224)

Printed wiring boards and schematic diagram of new type, and changed parts list are described in this Supplement-1.
Refer to original service manual previously issued for the other information.

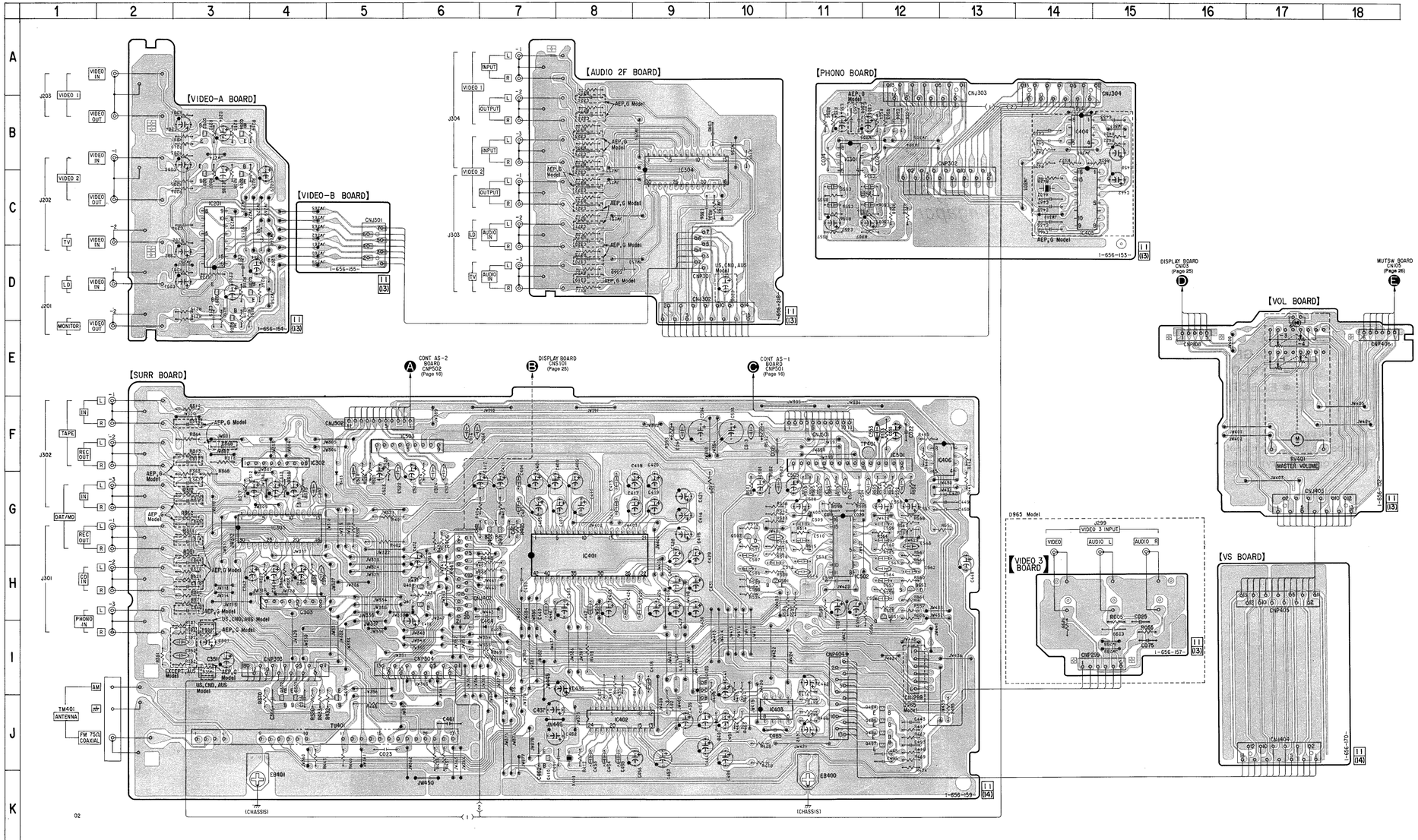
● SEMICONDUCTOR LOCATION

Ref. No.	Location
D401	J - 10
D402	I - 7
D403	G - 5
IC201	C - 3
IC301	B - 11
IC302	F - 4
IC303	H - 4
IC304	C - 9
IC305	G - 4
IC401	H - 8
IC402	J - 8
IC403	J - 10
IC404	B - 14
IC405	C - 14
IC406	F - 13
IC501	F - 11
IC502	G - 11
IC503	F - 6
Q201	C - 3
Q202	B - 3
Q203	C - 3
Q204	B - 3
Q205	D - 4
Q206	D - 3
Q207	D - 3
Q301	J - 4
Q302	J - 4
Q401	G - 7
Q402	G - 7
Q403	I - 9
Q404	J - 12
Q405	J - 12
Q406	J - 12
Q407	J - 12
Q408	H - 6
Q409	J - 5
Q410	J - 7
Q411	H - 6
Q501	H - 9
Q502	G - 9
Q551	H - 12
Q552	H - 12

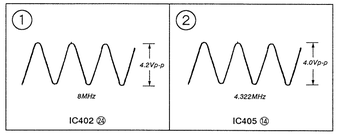
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  * Malaysia and Singapore model is the same as the AEP model.

● PRINTED WIRING BOARDS (SURROUND SECTION)



● WAVEFORMS



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.

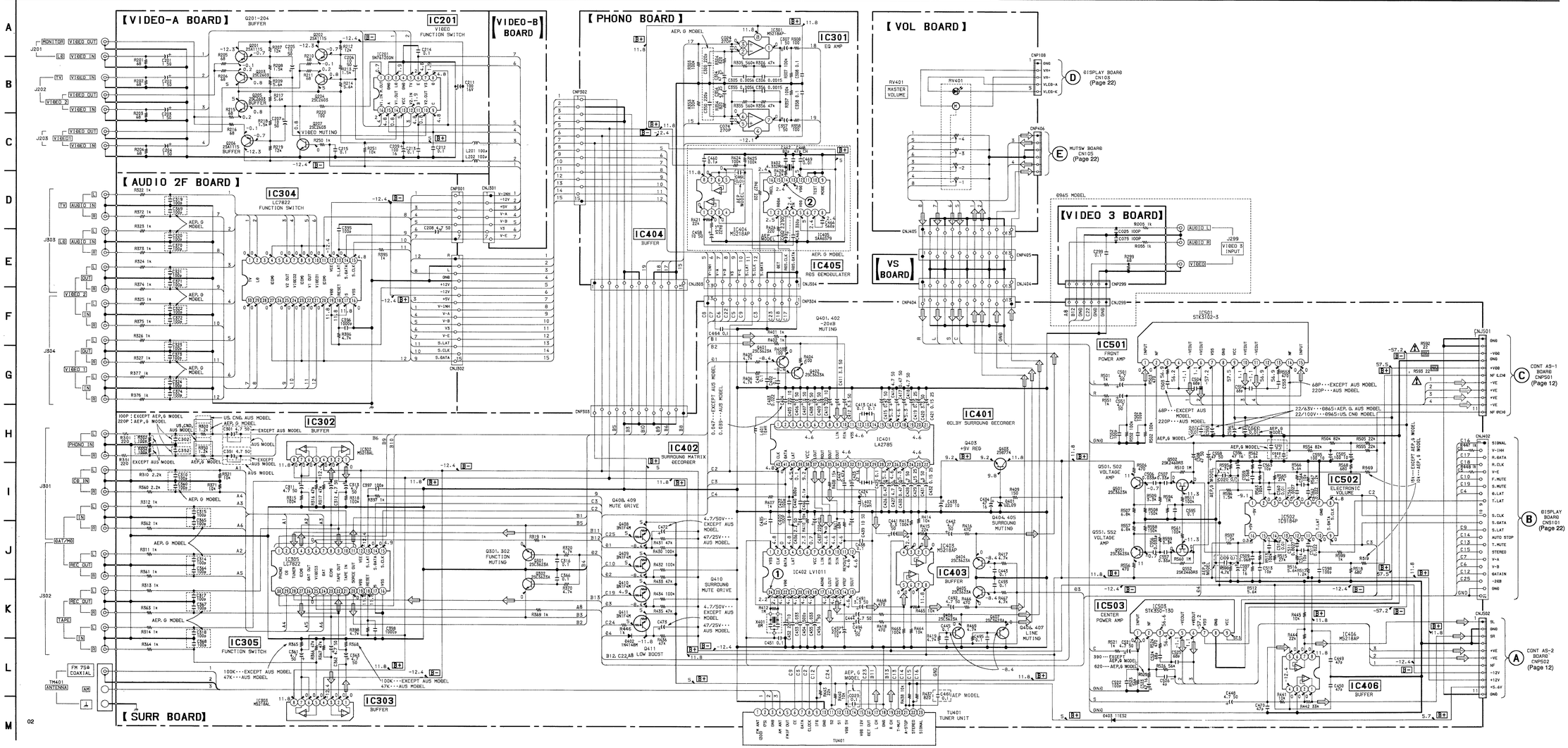
Note :	**Note :**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  * Malaysia and Singapore model is the same as the AEP model.

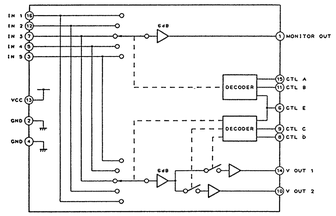
● SCHEMATIC DIAGRAM (SURROUND SECTION)

● Refer to page 11 for IC Block Diagrams.

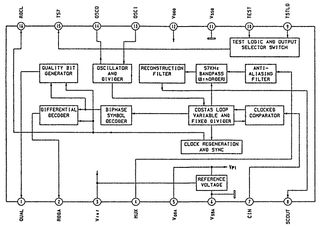


● IC BLOCK DIAGRAM – SURROUND SECTION –

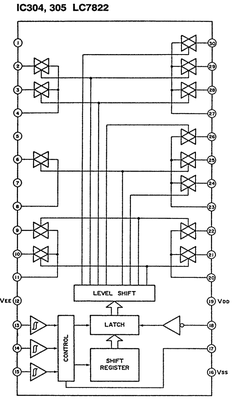
IC201 SN761200



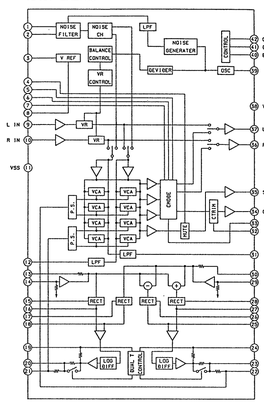
IC405 SAA6579



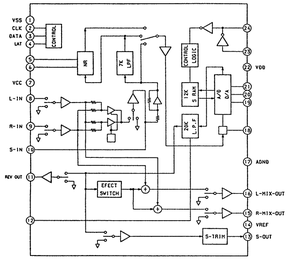
IC304, 305 LC7822



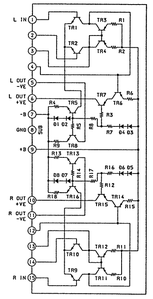
IC401 LA2785



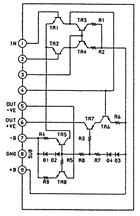
IC402 LV1011



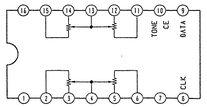
IC501 STK3102MK3



IC503 STK350-230

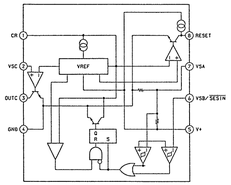


IC502 TC9184P



● IC BLOCK DIAGRAM – AMP SECTION –

IC901 NJM2103D



Note :

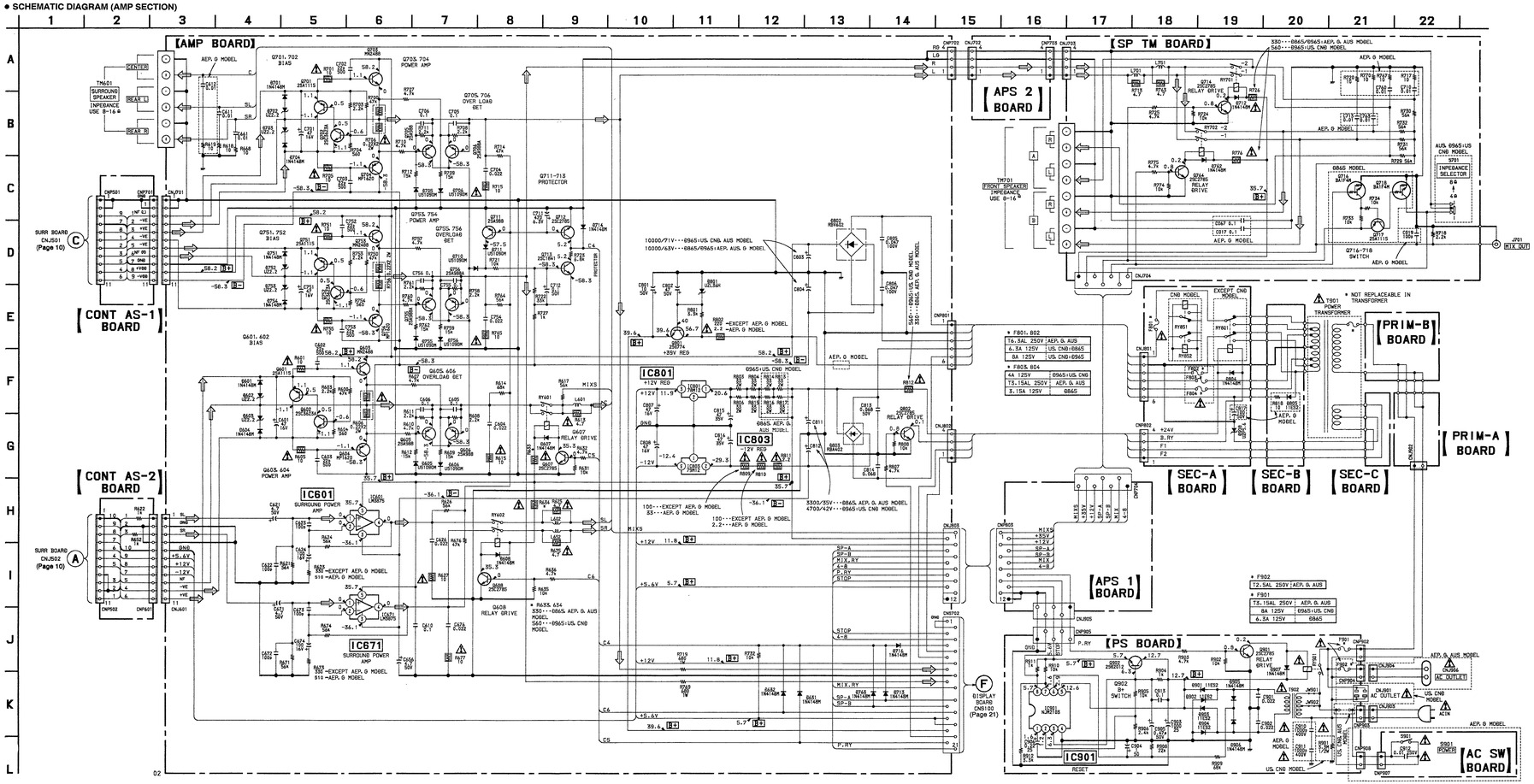
- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- FUSIBLE : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

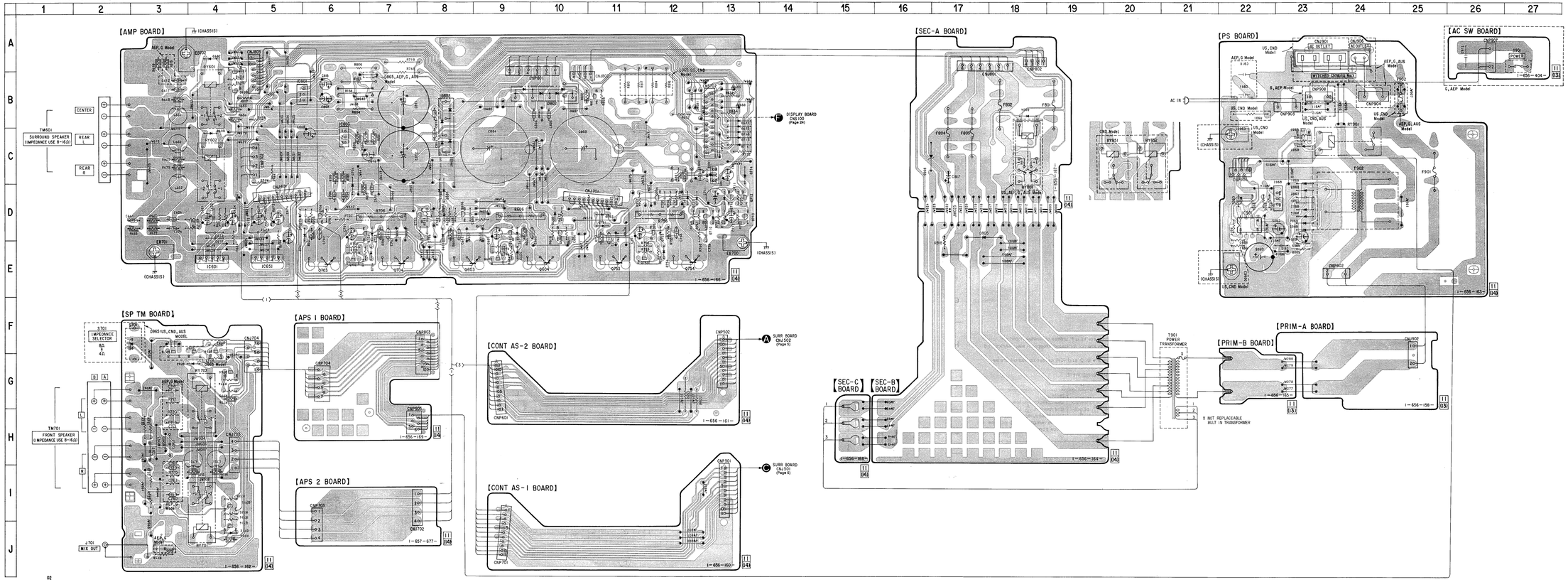
- B+ : B+ Line
- B – : B – Line
- Voltage are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian

* Malaysia and Singapore model is the same as the AEP model.

● SCHEMATIC DIAGRAM (AMP SECTION)


【AMP BOARD】
【SP TM BOARD】
【APS 2 BOARD】
【APS 1 BOARD】
【PS BOARD】
【AC SW BOARD】
【CONT AS-1 BOARD】
【CONT AS-2 BOARD】
【PRIM-A BOARD】
【PRIM-B BOARD】
【SEC-A BOARD】
【SEC-B BOARD】
【SEC-C BOARD】
IC801
IC803
IC601
IC671
IC901
Q701, 702 BIAS
Q703, 704 POWER AMP
Q705, 706 OVER LOAD DET
Q711-713 PROTECTOR
Q751, 752 BIAS
Q753, 754 POWER AMP
Q755, 756 OVERLOAD DET
Q401, 402 BIAS
Q405, 406 OVERLOAD DET
Q403, 404 POWER AMP
Q407 RELAY DRIVE
Q608 RELAY DRIVE
Q714 RELAY DRIVE
Q716-718 SWITCH
Q902 RELAY DRIVE
Q902 SW
T601 SURROUND SPEAKER IMPEDANCE USE 8-16Ω
T701 FRONT SPEAKER IMPEDANCE USE 8-16
T901 POWER TRANSFORMER
* NOT REPLACEABLE IN TRANSFORMER
CENTER
SURROUND
REAR L
REAR R
SURR BOARD CNJ501 (Page 10)
SURR BOARD CNJ502 (Page 10)
AEP, G MODEL
EXCEPT AEP, G MODEL
6965 AEP, G MODEL
6865 AEP, G MODEL
6865/6965 AUS MODEL
6865/6965 US CND MODEL
6965 US CND MODEL
AUS, US CND MODEL
EXCEPT CND MODEL
CND MODEL
+12V REG
+5V REG
+35V REG
-12V REG
RELAY DRIVE
SURROUND POWER AMP
SP-A
SP-B
MIX
P.RY
STOP
RESET
AC OUTLET
US CND MODEL
AEP, G AUS MODEL
IMPEDANCE SELECTOR
MIX OUT
F801, 802
T6.5AL 250V : AEP, G AUS
6.3A 125V : US CND/6865
8A 125V : US CND/6965
F803, 804
4A 125V : 6965/US CND
T5.15AL 250V : AEP, G AUS
3.15A 125V : 6865
F902
T2.5AL 250V : AEP, G AUS
F901
T5.15AL 250V : AEP, G AUS
8A 125V : 6965/US CND
6.3A 125V : 6865
10000/71V···6965/US CND AUS MODEL
10000/63V···6865/6965/AEP, AUS, G MODEL
100···EXCEPT AEP, G MODEL
53···AEP, G MODEL
100···EXCEPT AEP, G MODEL
2.2···AEP, G MODEL
3300/25V···6865, AEP, G, AUS MODEL
4700/42V···6965/US CND MODEL
330···6865/6965/AEP, G AUS MODEL
560···6965/US CND MODEL
* R4XX, 434
330···6865, AEP, G, AUS MODEL
560···6965/US CND MODEL
* R4XX, 434
330···6865/6965/AEP, G

● PRINTED WIRING BOARDS (AMP SECTION)



● SEMICONDUCTOR LOCATION

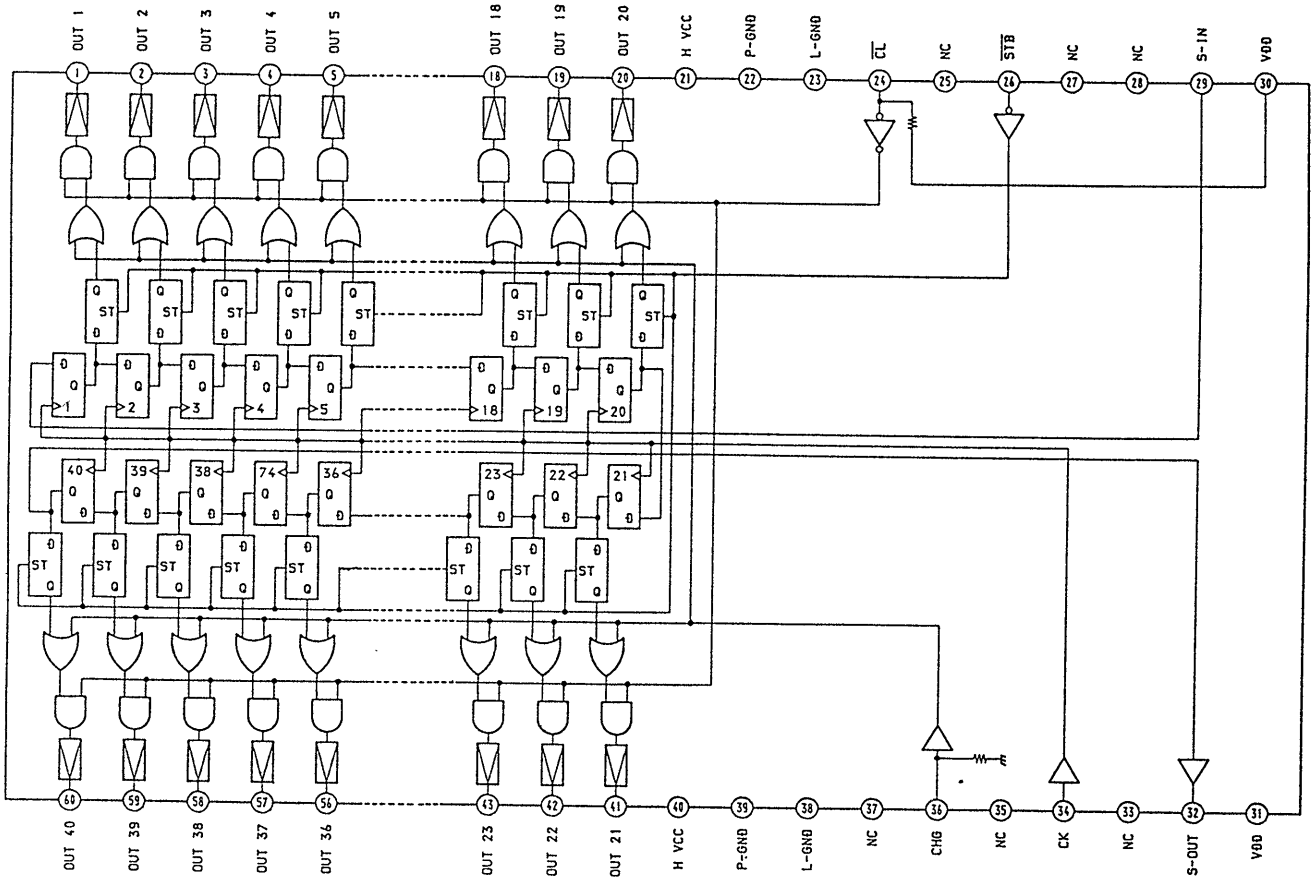
Ref. No.	Location	Ref. No.	Location
D601	D - 8	IC601	E - 4
D602	D - 8	IC651	E - 5
D603	D - 9	IC801	B - 5
D604	E - 9	IC803	C - 6
D605	D - 10	IC901	D - 22
D606	D - 8		
D607	A - 4	Q601	D - 9
D608	C - 4	Q602	E - 9
D631	B - 13	Q603	E - 8
D632	B - 13	Q604	E - 10
		Q605	D - 10
D701	D - 6		
D702	D - 5	Q606	D - 8
D703	D - 7	Q607	B - 4
D704	E - 7	Q608	B - 4
D705	D - 8	Q701	D - 7
		Q702	E - 6
D706	D - 6		
D710	D - 13	Q703	E - 6
D711	D - 13	Q704	E - 7
D712	J - 4	Q705	D - 8
D713	C - 13	Q706	D - 6
		Q711	D - 13
D714	C - 13		
D715	I - 13	Q712	D - 13
D716	C - 13	Q713	D - 13
D751	D - 11	Q714	J - 4
D752	D - 11	Q715	I - 4
		Q716	F - 4
D753	D - 12		
D754	E - 12	Q717	F - 4
D755	D - 12	Q718	F - 3
D756	D - 12	Q751	D - 12
D782	G - 4	Q752	E - 11
		Q753	E - 11
D783	C - 13		
D801	C - 13	Q754	E - 12
D802	B - 10	Q755	D - 13
D803	B - 8	Q756	D - 12
D804	B - 18	Q764	G - 4
		Q801	C - 13
D805	E - 17		
D901	D - 23	Q802	B - 11
D902	D - 23	Q901	C - 23
D903	D - 23	Q902	D - 23
D904	D - 23		
D905	D - 23		
D906	D - 23		
D907	C - 23		
D908	C - 16		

Note:

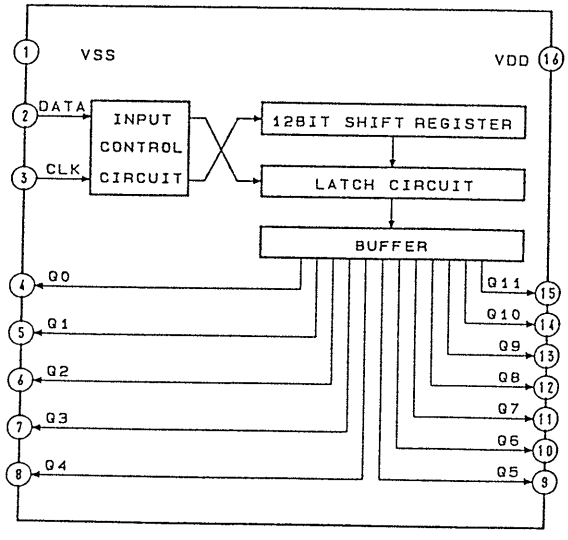
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  * Malaysia and Singapore model is the same as the AEP model.

• IC BLOCK DIAGRAM – DISPLAY SECTION –

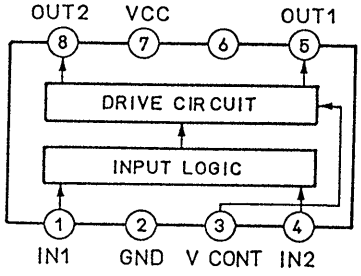
IC100, 105 TD62C950RF



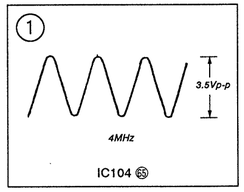
IC101 M50253P



IC103 LB1639



● WAVEFORM



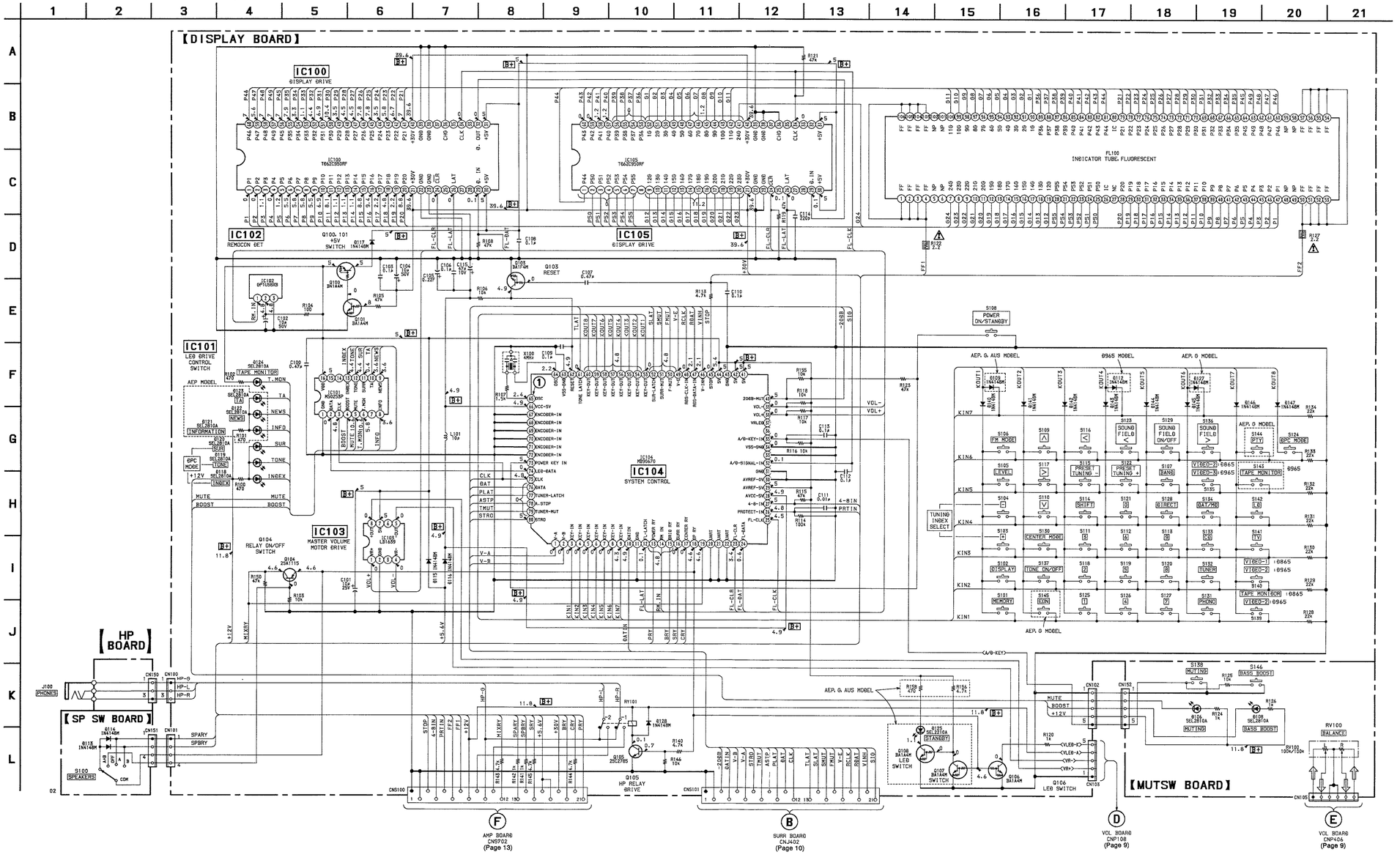
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

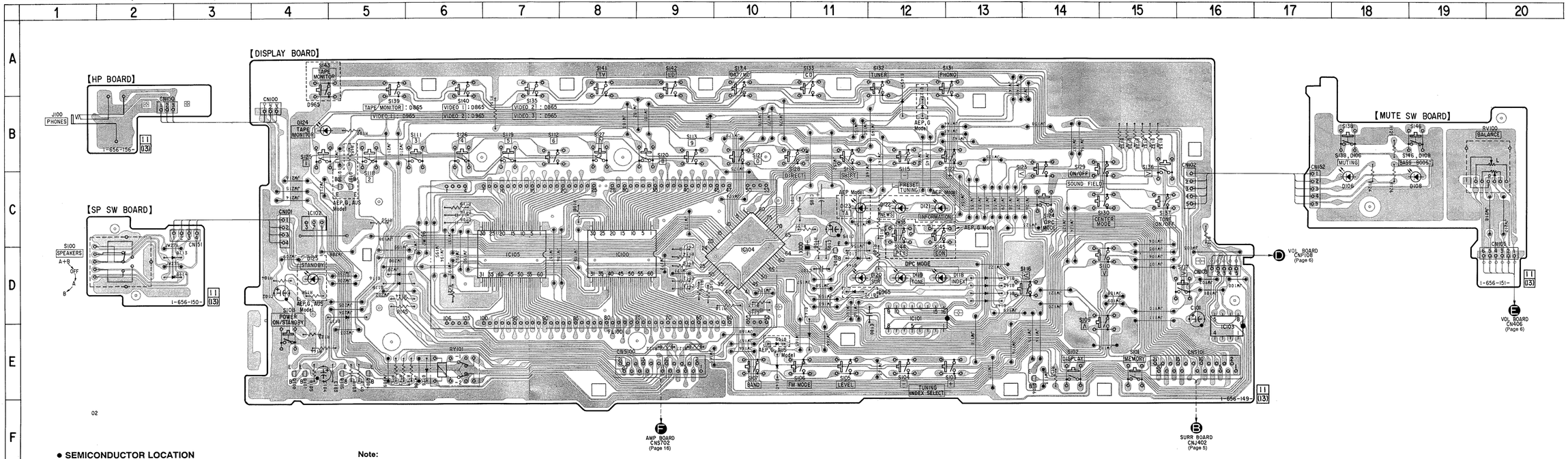
Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
  * Malaysia and Singapore model is the same as the AEP model.

● SCHEMATIC DIAGRAM (DISPLAY SECTION)



• PRINTED WIRING BOARDS (DISPLAY SECTION)



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D106	C-18	D125	D-4	IC104	D-10
D108	C-19	D127	B-12	IC105	D-7
D109	E-10	D128	E-6		
D112	D-11	D140	E-10		
D113	D-2	D141	D-13	Q100	E-4
				Q101	E-4
D114	D-2	D142	D-13	Q103	D-11
D115	D-5	D143	D-13	Q104	E-5
D116	D-5	D144	E-11		
D117	D-5	D145	D-12	Q105	E-5
D118	D-12	D146	D-11	Q106	E-14
				Q107	C-5
D119	D-12	D147	D-13	Q108	C-5
D120	D-11				
D121	C-12				
D122	C-12	IC100	D-8		
D123	C-11	IC101	D-12		
		IC102	C-4		
D124	B-4	IC103	E-16		

Note:

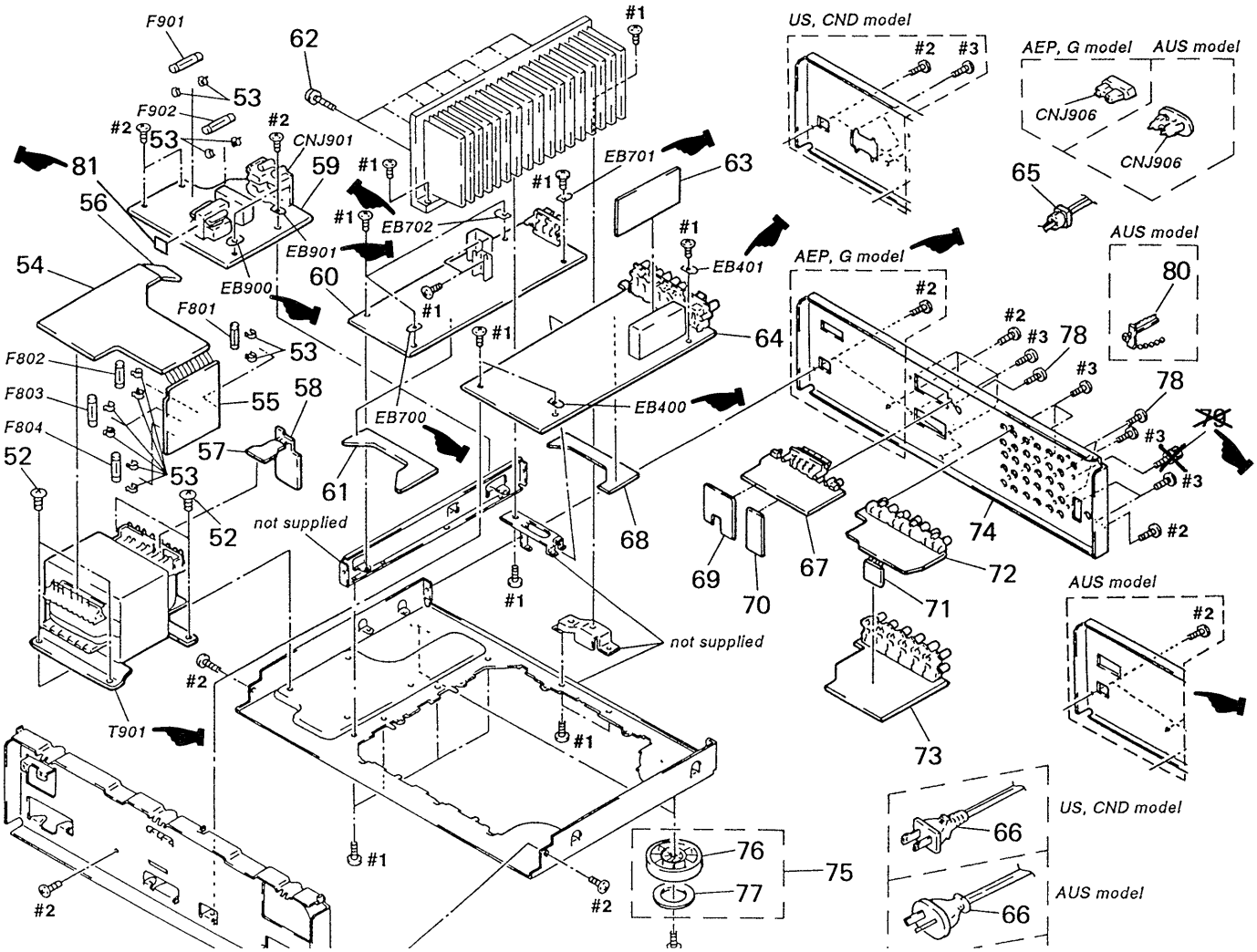
- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian
  G : German
  AUS : Australian
- * Malaysia and Singapore model is the same as the AEP model.

EXPLODED VIEWS

- Since only these sections that are different from the former type are described in this manual, refer to the original Service Manual which is issued already for the other parts.

4-2. CHASSIS SECTION (Service Manual See Page 37)

☛ : Added or deleted portion



Ref. No.	Former Type Part No.	Former Type Description	New Type Part No.	New Type Description	Remark
79	4-947-010-01	SCREW, FEEDER	———		Deleted
* 81	———		4-977-269-11	INSULATOR (L) (AEP, G)	Added
⚠T901	1-427-728-11	TRANSFORMER, POWER (AEP, G, AUS)	1-427-728-11	TRANSFORMER, POWER (AEP, G)	Changed
⚠T901	———		1-427-908-11	TRANSFORMER, POWER (AUS)	Added
EB400	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB401	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB700	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB701	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB702	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB900	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed
EB901	1-537-770-21	TERMINAL BOARD, GROUND	1-537-738-21	TERMINAL, EARTH	Changed

ELECTRICAL PARTS LIST

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian G : German
  AUS : Australian
- Malaysia and Singapore model is the same as the AEP model.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-656-404-11	AC SW BOARD (AEP,G)			
		**********			
		< CAPACITOR >			
⚠C912	1-113-916-11	CERAMIC	0.01uF	20%	250V (AEP,G)
		< CONNECTOR >			
CNP907	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AEP,G)			
		< SWITCH >			
⚠S901	1-572-267-21	SWITCH, PUSH (AC POWER)(1 KEY) (POWER)			(AEP,G)
**********					
*	A-4377-771-A	AMP BOARD, COMPLETE (D865)			
*	A-4377-753-A	AMP BOARD, COMPLETE (D965:US,CND)			
*	A-4377-754-A	AMP BOARD, COMPLETE (D965:AEP,G)			
*	A-4378-251-A	AMP BOARD, COMPLETE (D965:AUS)			
		**********			
		< CAPACITOR >			
C601	1-124-910-11	ELECT	47uF	20%	50V (D865)
C601	1-104-664-11	ELECT	47uF	20%	16V (D965)
C602	1-107-597-11	CERAMIC	22PF	10%	500V
C603	1-107-597-11	CERAMIC	22PF	10%	500V
C604	1-136-157-00	FILM	0.022uF	5%	50V
C605	1-164-159-11	CERAMIC	0.1uF		50V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-164-159-11	CERAMIC	0.1uF		50V
C611	1-164-096-11	CERAMIC	0.01uF		50V
C612	1-164-096-11	CERAMIC	0.01uF		50V (AEP,G)
C621	1-126-963-11	ELECT	4.7uF	20%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-162-282-31	CERAMIC	100PF	10%	50V
C624	1-104-665-11	ELECT	100uF	20%	16V
C626	1-136-157-00	FILM	0.022uF	5%	50V
C656	1-126-963-11	ELECT	4.7uF	20%	50V
C661	1-164-096-11	CERAMIC	0.01uF		50V
C671	1-126-963-11	ELECT	4.7uF	20%	50V
C672	1-162-282-31	CERAMIC	100PF	10%	50V
C673	1-162-282-31	CERAMIC	100PF	10%	50V
C674	1-104-665-11	ELECT	100uF	20%	16V
C676	1-136-157-00	FILM	0.022uF	5%	50V
C701	1-124-910-11	ELECT	47uF	20%	50V (D865)
C701	1-104-664-11	ELECT	47uF	20%	16V (D965)
C702	1-107-597-11	CERAMIC	22PF	10%	500V
C703	1-107-597-11	CERAMIC	22PF	10%	500V
C704	1-136-157-00	FILM	0.022uF	5%	50V
C705	1-164-159-11	CERAMIC	0.1uF		50V
C706	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-126-941-11	ELECT	470uF	20%	6.3V
C712	1-124-463-00	ELECT	0.1uF	20%	50V
C751	1-124-910-11	ELECT	47uF	20%	50V (D865)
C751	1-104-664-11	ELECT	47uF	20%	16V (D965)
C752	1-107-597-11	CERAMIC	22PF	10%	500V
C753	1-107-597-11	CERAMIC	22PF	10%	500V
C754	1-136-157-00	FILM	0.022uF	5%	50V
C755	1-164-159-11	CERAMIC	0.1uF		50V
C756	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-124-907-11	ELECT	10uF	20%	50V
C802	1-124-910-11	ELECT	47uF	20%	50V (D965)
C803	1-125-729-11	ELECT	10000uF	20%	63V (D865,D965:AEP,G)
C803	1-109-932-12	ELECT	10000uF	20%	71V (D965:US,CND,AUS)

AMP

Ref. No.	Part No.	Description				Remark
C804	1-125-729-11	ELECT	10000uF	20%	63V	(D865,D965:AEP,G)
C804	1-109-932-12	ELECT	10000uF	20%	71V	(D965:US,CND,AUS)
C805	1-137-420-11	FILM	0.047uF	10%	100V	
C806	1-137-420-11	FILM	0.047uF	10%	100V	
C807	1-104-664-11	ELECT	47uF	20%	16V	
C808	1-104-664-11	ELECT	47uF	20%	16V	
C811	1-126-413-11	ELECT	3300uF	20%	35V	(D865,AEP,G,AUS)
C811	1-126-224-11	ELECT	4700uF	20%	42V	(D965:US,CND)
C812	1-126-413-11	ELECT	3300uF	20%	35V	(D865,D965:AEP,G,AUS)
C812	1-126-224-11	ELECT	4700uF	20%	42V	(D965:US,CND)
C813	1-136-495-11	FILM	0.068uF	5%	50V	
C814	1-136-495-11	FILM	0.068uF	5%	50V	
C815	1-126-967-11	ELECT	47uF	20%	35V	
C816	1-126-967-11	ELECT	47uF	20%	35V	
		< CONNECTOR >				
CNJ601	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P				
CNJ701	1-770-404-11	HOUSING,CONNECTOR(PC BOARD)11P				
* CNJ802	1-565-495-11	CONNECTOR, BOARD TO BOARD 4P				
CNJ803	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P				
CNP702	1-770-481-11	PIN, CONNECTOR 4P				
* CNP801	1-560-259-00	CONNECTOR PIN,WITH LOCK 6P				
CNS702	1-764-926-11	CONNECTOR,FFC(LIF(NON-ZIF))21P				
		< DIODE >				
D601	8-719-987-63	DIODE 1N4148M				
D602	8-719-010-06	DIODE UZ-2.2BS				
D603	8-719-010-06	DIODE UZ-2.2BS				
D604	8-719-987-63	DIODE 1N4148M				
D605	8-719-815-85	DIODE 1S1585				
D606	8-719-815-85	DIODE 1S1585				
D607	8-719-987-63	DIODE 1N4148M				
D608	8-719-987-63	DIODE 1N4148M				
D631	8-719-987-63	DIODE 1N4148M				
D632	8-719-987-63	DIODE 1N4148M				
D701	8-719-987-63	DIODE 1N4148M				
D702	8-719-010-06	DIODE UZ-2.2BS				
D703	8-719-010-06	DIODE UZ-2.2BS				
D704	8-719-987-63	DIODE 1N4148M				
D705	8-719-815-85	DIODE 1S1585				
D706	8-719-815-85	DIODE 1S1585				
D710	8-719-815-85	DIODE 1S1585				
D711	8-719-815-85	DIODE 1S1585				
D713	8-719-987-63	DIODE 1N4148M				
D714	8-719-987-63	DIODE 1N4148M				

Ref. No.	Part No.	Description	Remark
D716	8-719-987-63	DIODE 1N4148M	
D751	8-719-987-63	DIODE 1N4148M	
D752	8-719-010-06	DIODE UZ-2.2BS	
D753	8-719-010-06	DIODE UZ-2.2BS	
D754	8-719-987-63	DIODE 1N4148M	
D755	8-719-815-85	DIODE 1S1585	
D756	8-719-815-85	DIODE 1S1585	
D763	8-719-987-63	DIODE 1N4148M	
D801	8-719-002-76	DIODE UZL-36H	
D802	8-719-302-38	DIODE RBV-602-01	
D803	8-719-025-03	DIODE RBA-402-SL	
		< TERMINAL, EARTH >	
* EB700	1-537-738-21	TERMINAL, EARTH	
* EB701	1-537-738-21	TERMINAL, EARTH	
* EB702	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC601	8-759-069-56	IC LM3875	
IC671	8-759-069-56	IC LM3875	
IC801	8-759-263-43	IC TA78M12S	
IC803	8-759-604-45	IC M5F79M12	
		< COIL >	
L601	1-420-872-00	COIL, AIR-CORE	
L602	1-420-872-00	COIL, AIR-CORE	
L652	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-749-010-25	IC MN2488-OPY-M	
Q604	8-749-010-26	IC MP1620-OPY-M	
Q605	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q606	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q607	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q608	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q705	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q706	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q711	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q712	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q713	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MP1620-OPY-M	
Q755	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q756	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	

Ref. No.	Part No.	Description			Remark
Q801	8-729-140-96	TRANSISTOR 2SD774-34			
Q802	8-729-119-79	TRANSISTOR 2SC2785-FEK			
		< RESISTOR >			
R600	1-249-437-11	CARBON	47K	5%	1/4W
⚠R601	1-249-393-11	CARBON	10	5%	1/4W F
R603	1-249-421-11	CARBON	2.2K	5%	1/4W
R604	1-249-414-11	CARBON	560	5%	1/4W
⚠R605	1-249-393-11	CARBON	10	5%	1/4W F
⚠R606	1-233-352-21	ENCAPSULATED COMPONENT	2.2		2W F
R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R608	1-249-421-11	CARBON	2.2K	5%	1/4W
R609	1-249-431-11	CARBON	15K	5%	1/4W
R610	1-249-425-11	CARBON	4.7K	5%	1/4W
R611	1-249-421-11	CARBON	2.2K	5%	1/4W
R612	1-249-431-11	CARBON	15K	5%	1/4W
⚠R613	1-249-389-11	CARBON	4.7	5%	1/4W F
R614	1-249-439-11	CARBON	68K	5%	1/4W
⚠R615	1-249-393-11	CARBON	10	5%	1/4W F
R617	1-249-438-11	CARBON	56K	5%	1/4W
R618	1-249-393-11	CARBON	10	5%	1/4W
R619	1-249-393-11	CARBON	10	5%	1/4W (AEP,G)
R621	1-249-438-11	CARBON	56K	5%	1/4W
R623	1-249-411-11	CARBON	330	5%	1/4W (EXCEPT AEP,G)
R623	1-249-442-11	CARBON	510	5%	1/4W (AEP,G)
R624	1-249-438-11	CARBON	56K	5%	1/4W
⚠R625	1-249-389-11	CARBON	4.7	5%	1/4W F
R626	1-249-438-11	CARBON	56K	5%	1/4W
⚠R627	1-249-393-11	CARBON	10	5%	1/4W F
R631	1-249-429-11	CARBON	10K	5%	1/4W
R632	1-249-425-11	CARBON	4.7K	5%	1/4W
R633	1-249-411-11	CARBON	330	5%	1/4W (D865,AEP,G,AUS)
⚠R633	1-249-414-11	CARBON	560	5%	1/4W F (D965:US,CND)
R634	1-249-411-11	CARBON	330	5%	1/4W (D865,AEP,G,AUS)
⚠R634	1-249-414-11	CARBON	560	5%	1/4W F (D965:US,CND)
R635	1-249-429-11	CARBON	10K	5%	1/4W
R636	1-249-425-11	CARBON	4.7K	5%	1/4W
R668	1-249-393-11	CARBON	10	5%	1/4W
R671	1-249-438-11	CARBON	56K	5%	1/4W
R673	1-249-411-11	CARBON	330	5%	1/4W (EXCEPT AEP,G)
R673	1-249-442-11	CARBON	510	5%	1/4W (AEP,G)
R674	1-249-438-11	CARBON	56K	5%	1/4W
⚠R675	1-249-389-11	CARBON	4.7	5%	1/4W F
R676	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
⚠R677	1-249-393-11	CARBON	10	5%	1/4W F
R700	1-249-437-11	CARBON	47K	5%	1/4W
⚠R701	1-249-393-11	CARBON	10	5%	1/4W F
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-249-414-11	CARBON	560	5%	1/4W
⚠R705	1-249-393-11	CARBON	10	5%	1/4W F
⚠R706	1-233-352-21	ENCAPSULATED COMPONENT	2.2		2W F
R707	1-249-425-11	CARBON	4.7K	5%	1/4W
R708	1-249-421-11	CARBON	2.2K	5%	1/4W
R709	1-249-431-11	CARBON	15K	5%	1/4W
R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R711	1-249-421-11	CARBON	2.2K	5%	1/4W
R712	1-249-431-11	CARBON	15K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
⚠R715	1-249-393-11	CARBON	10	5%	1/4W F
R719	1-215-868-00	METAL OXIDE	680	5%	1W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-435-11	CARBON	33K	5%	1/4W
R723	1-249-427-11	CARBON	6.8K	5%	1/4W
R727	1-249-417-11	CARBON	1K	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-249-437-11	CARBON	47K	5%	1/4W
⚠R751	1-249-393-11	CARBON	10	5%	1/4W F
R753	1-249-421-11	CARBON	2.2K	5%	1/4W
R754	1-249-414-11	CARBON	560	5%	1/4W
⚠R755	1-249-393-11	CARBON	10	5%	1/4W F
⚠R756	1-233-352-21	ENCAPSULATED COMPONENT	2.2		2W F
R757	1-249-425-11	CARBON	4.7K	5%	1/4W
R758	1-249-421-11	CARBON	2.2K	5%	1/4W
R759	1-249-431-11	CARBON	15K	5%	1/4W
R760	1-249-425-11	CARBON	4.7K	5%	1/4W
R761	1-249-421-11	CARBON	2.2K	5%	1/4W
R762	1-249-431-11	CARBON	15K	5%	1/4W
R764	1-249-438-11	CARBON	56K	5%	1/4W
⚠R765	1-249-393-11	CARBON	10	5%	1/4W F
R769	1-215-868-00	METAL OXIDE	680	5%	1W
R801	1-249-423-11	CARBON	3.3K	5%	1/4W
⚠R802	1-249-409-11	CARBON	220	5%	1/4W F (EXCEPT AEP,G)
⚠R802	1-249-385-11	CARBON	2.2	5%	1/6W F (AEP,G)
R803	1-215-883-11	METAL OXIDE	33	5%	2W
R804	1-215-883-11	METAL OXIDE	33	5%	2W
R806	1-215-883-11	METAL OXIDE	33	5%	2W
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
⚠R809	1-249-405-11	CARBON	100	5%	1/4W F (EXCEPT AEP,G)
⚠R809	1-249-399-91	CARBON	33	5%	1/4W F (AEP,G)
⚠R810	1-249-405-11	CARBON	100	5%	1/4W F (EXCEPT AEP,G)

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AMP | APS 1 | APS 2 | AUDIO 2F

Ref. No.	Part No.	Description			Remark
⚠R810	1-249-385-11	CARBON	2.2	5%	1/6W F (AEP,G)
⚠R811	1-249-385-11	CARBON	2.2	5%	1/6W F
⚠R812	1-249-411-11	CARBON	330	5%	1/4W F (D865,AEP,G,AUS)
⚠R812	1-249-414-11	CARBON	560	5%	1/4W F (D965:US,CND)
R813	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US,CND)
R814	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US,CND)
R815	1-215-883-11	METAL OXIDE	33	5%	2W
R816	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US,CND)
R817	1-215-883-11	METAL OXIDE	33	5%	2W (D965:US,CND)
		< RELAY >			
RY601	1-515-765-11	RELAY			
RY602	1-515-533-11	RELAY			
		< TERMINAL >			
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P)			(SURROUND SPEAKER)

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*	1-656-169-11	APS 1 BOARD			
		**********			
		< CONNECTOR >			
CNJ905	1-770-379-11	CONNECTOR, BOARD TO BOARD 6P			
CNP704	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
CNP803	1-770-407-11	CONNECTOR, BOARD TO BOARD 12P			

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*	1-657-677-11	APS 2 BOARD			
		**********			
		< CONNECTOR >			
CNJ702	1-770-569-11	SOCKET 4P			
CNP703	1-770-481-11	PIN, CONNECTOR 4P			

****

*	1-656-218-11	AUDIO 2F BOARD			
		**********			
*	1-690-880-21	LEAD (WITH CONNECTOR)			
		< CAPACITOR >			
C208	1-126-963-11	ELECT	4.7uF	20%	50V
C319	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C320	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C321	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C322	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C323	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C324	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C369	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C370	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C371	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C372	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C373	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C374	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C395	1-162-282-31	CERAMIC	100PF	10%	50V
C396	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNJ302	1-695-096-11	SOCKET, CONNECTOR 15P			
CNP301	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P			
		< IC >			
IC304	8-759-805-14	IC LC7822			
		< JACK >			
J303	1-691-887-11	JACK, PIN 6P (LD,TV,VIDEO 2)(US,CND,AUS)			
J303	1-766-394-11	JACK, PIN 6P (LD,TV,VIDEO 2)(AEP,G)			
J304	1-580-825-11	JACK, PIN 6P (VIDEO 1,VIDEO 2) (US,CND,AUS)			
J304	1-766-394-11	JACK, PIN 6P (VIDEO 1,VIDEO 2)(AEP,G)			
		< RESISTOR >			
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R373	1-249-417-11	CARBON	1K	5%	1/4W
R374	1-249-417-11	CARBON	1K	5%	1/4W
R375	1-249-417-11	CARBON	1K	5%	1/4W
R376	1-249-417-11	CARBON	1K	5%	1/4W
R377	1-249-417-11	CARBON	1K	5%	1/4W
R395	1-249-417-11	CARBON	1K	5%	1/4W
R396	1-249-425-11	CARBON	4.7K	5%	1/4W

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Ref. No.	Part No.	Description			Remark
*	1-656-160-11	CONT AS-1 BOARD			
		**********			
		< CONNECTOR >			
CNP501	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP701	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	1-656-161-11	CONT AS-2 BOARD			
		**********			
		< CONNECTOR >			
CNP502	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
CNP601	1-770-553-11	CONNECTOR, BOARD TO BOARD 11P			
		< RESISTOR >			
R622	1-249-417-11	CARBON	1K	5%	1/4W
R652	1-249-417-11	CARBON	1K	5%	1/4W
**********					
*	A-4377-581-A	DISPLAY BOARD, COMPLETE (D865)			
*	A-4377-740-A	DISPLAY BOARD, COMPLETE (D965:US,CND)			
*	A-4377-741-A	DISPLAY BOARD, COMPLETE (D965:AEP,G)			
*	A-4378-250-A	DISPLAY BOARD, COMPLETE (D965:AUS)			
		**********			
		< CAPACITOR >			
C100	1-136-173-00	FILM	0.47uF	5%	50V
C101	1-126-096-11	ELECT	10uF	20%	35V
C102	1-124-261-00	ELECT	10uF	20%	50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-124-261-00	ELECT	10uF	20%	50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-164-159-11	CERAMIC	0.1uF		50V
C107	1-136-173-00	FILM	0.47uF	5%	50V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-162-306-11	CERAMIC	0.01uF	30%	16V
C112	1-164-159-11	CERAMIC	0.1uF		50V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C114	1-162-286-31	CERAMIC	220PF	10%	50V
C115	1-124-589-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CN100	1-770-396-11	HOUSING, CONNECTOR(PC BOARD)3P			
* CN101	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
* CN102	1-565-481-11	CONNECTOR, BOARD TO BOARD 5P			
CN103	1-770-398-11	HOUSING, CONNECTOR(PC BOARD)5P			
CNS100	1-766-034-11	CONNECTOR,FFC(LIF(NON-ZIF))21P			
CNS101	1-766-034-11	CONNECTOR,FFC(LIF(NON-ZIF))21P			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D109	8-719-987-63	DIODE 1N4148M (AEP,G,AUS)	
D112	8-719-987-63	DIODE 1N4148M (D965)	
D115	8-719-987-63	DIODE 1N4148M	
D116	8-719-987-63	DIODE 1N4148M	
D117	8-719-987-63	DIODE 1N4148M	
D118	8-719-301-49	LED SEL2810A (INDEX)	
D119	8-719-301-49	LED SEL2810A (TONE)	
D120	8-719-301-49	LED SEL2810A (SUR)	
D121	8-719-301-49	LED SEL2810A (INFORMATION) (AEP,G)	
D122	8-719-301-49	LED SEL2810A (NEWS (AEP,G)	
D123	8-719-301-49	LED SEL2810A (TA)(AEP,G)	
D124	8-719-301-49	LED SEL2810A (TAPE MONITOR)	
D125	8-719-313-43	LED SEL6210S-TH10 (STANDBY) (AEP,G,AUS)	
D127	8-719-987-63	DIODE 1N4148M (AEP,G)	
D128	8-719-987-63	DIODE 1N4148M	
D140	8-719-987-63	DIODE 1N4148M	
D141	8-719-987-63	DIODE 1N4148M	
D142	8-719-987-63	DIODE 1N4148M	
D143	8-719-987-63	DIODE 1N4148M	
D144	8-719-987-63	DIODE 1N4148M	
D145	8-719-987-63	DIODE 1N4148M	
D146	8-719-987-63	DIODE 1N4148M	
D147	8-719-987-63	DIODE 1N4148M	
		< INDICATOR TUBE >	
FL100	1-517-402-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC100	8-759-075-35	IC TD62C950RF	
IC101	8-759-635-31	IC M50253P	
IC102	8-749-923-11	IC GP1U58XB	
IC103	8-759-820-62	IC LB1639	
IC104	8-759-384-77	IC MB90673-144	
IC105	8-759-075-35	IC TD62C950RF	
		< COIL >	
L101	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q100	8-729-422-57	TRANSISTOR UN4111	
Q101	8-729-900-80	TRANSISTOR DTC114ES	
Q103	8-729-900-36	TRANSISTOR DTC124ES	
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q105	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q106	8-729-900-80	TRANSISTOR DTC114ES	
Q107	8-729-900-80	TRANSISTOR DTC114ES (AEP,G,AUS)	
Q108	8-729-900-80	TRANSISTOR DTC114ES (AEP,G,AUS)	

DISPLAY

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R100	1-249-413-11	CARBON	470	5%	1/4W
R101	1-249-413-11	CARBON	470	5%	1/4W (AEP)
R102	1-249-413-11	CARBON	470	5%	1/4W
R103	1-249-429-11	CARBON	10K	5%	1/4W
R104	1-247-807-31	CARBON	100	5%	1/4W
R105	1-249-437-11	CARBON	47K	5%	1/4W
R106	1-249-429-11	CARBON	10K	5%	1/4W
R107	1-249-419-11	CARBON	1.5K	5%	1/4W
R108	1-249-437-11	CARBON	47K	5%	1/4W
R113	1-249-425-11	CARBON	4.7K	5%	1/4W
R114	1-249-441-11	CARBON	100K	5%	1/4W
R115	1-249-437-11	CARBON	47K	5%	1/4W
R116	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-429-11	CARBON	10K	5%	1/4W
R119	1-249-437-11	CARBON	47K	5%	1/4W
R120	1-249-417-11	CARBON	1K	5%	1/4W
R121	1-249-437-11	CARBON	47K	5%	1/4W
⚠R122	1-249-385-11	CARBON	2.2	5%	1/6W F
R123	1-249-437-11	CARBON	47K	5%	1/4W
⚠R127	1-249-385-11	CARBON	2.2	5%	1/6W F
R128	1-249-433-11	CARBON	22K	5%	1/4W
R129	1-249-433-11	CARBON	22K	5%	1/4W
R130	1-249-433-11	CARBON	22K	5%	1/4W
R131	1-249-433-11	CARBON	22K	5%	1/4W
R132	1-249-433-11	CARBON	22K	5%	1/4W
R133	1-249-433-11	CARBON	22K	5%	1/4W
R134	1-249-433-11	CARBON	22K	5%	1/4W
R140	1-249-425-11	CARBON	4.7K	5%	1/4W
R141	1-249-417-11	CARBON	1K	5%	1/4W
R142	1-249-417-11	CARBON	1K	5%	1/4W
R143	1-249-425-11	CARBON	4.7K	5%	1/4W
R144	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-249-425-11	CARBON	4.7K	5%	1/4W
R146	1-249-429-11	CARBON	10K	5%	1/4W
R150	1-249-437-11	CARBON	47K	5%	1/4W
R155	1-249-429-11	CARBON	10K	5%	1/4W
R156	1-249-425-11	CARBON	4.7K	5%	1/4W (AEP,G,AUS)
R158	1-249-413-11	CARBON	470	5%	1/4W (AEP,G,AUS)
		< RELAY >			
RY101	1-515-614-11	RELAY			
		< SWITCH >			
S101	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S102	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
S103	1-554-303-21	SWITCH, TACTILE (TUNING/INDEX SELECT +)			
S104	1-554-303-21	SWITCH, TACTILE (TUNING/INDEX SELECT –)			
S105	1-554-303-21	SWITCH, TACTILE (LEVEL)			
S106	1-554-303-21	SWITCH, TACTILE (FM MODE)			
S107	1-554-303-21	SWITCH, TACTILE (BAND)			
S108	1-554-303-21	SWITCH, TACTILE (POWER ON/STANDBY)			
S109	1-554-303-21	SWITCH, TACTILE (∧)			
S110	1-554-303-21	SWITCH, TACTILE (∨)			
S111	1-554-303-21	SWITCH, TACTILE (3)			
S112	1-554-303-21	SWITCH, TACTILE (6)			
S113	1-554-303-21	SWITCH, TACTILE (9)			
S114	1-554-303-21	SWITCH, TACTILE (SHIFT)			
S115	1-554-303-21	SWITCH, TACTILE (PRESET TUNING –)			
S116	1-554-303-21	SWITCH, TACTILE (<)			
S117	1-554-303-21	SWITCH, TACTILE (>)			
S118	1-554-303-21	SWITCH, TACTILE (2)			
S119	1-554-303-21	SWITCH, TACTILE (5)			
S120	1-554-303-21	SWITCH, TACTILE (8)			
S121	1-554-303-21	SWITCH, TACTILE (0)			
S122	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)			
S123	1-554-303-21	SWITCH, TACTILE (SOUND FIELD<)			
S124	1-554-303-21	SWITCH, TACTILE (DPC MODE)			
S125	1-554-303-21	SWITCH, TACTILE (1)			
S126	1-554-303-21	SWITCH, TACTILE (4)			
S127	1-554-303-21	SWITCH, TACTILE (7)			
S128	1-554-303-21	SWITCH, TACTILE (DIRECT)			
S129	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)			
S130	1-554-303-21	SWITCH, TACTILE (CENTER MODE)			
S131	1-554-303-21	SWITCH, TACTILE (PHONO)			
S132	1-554-303-21	SWITCH, TACTILE (TUNER)			
S133	1-554-303-21	SWITCH, TACTILE (CD)			
S134	1-554-303-21	SWITCH, TACTILE (DAT/MD)			
S135	1-554-303-21	SWITCH, TACTILE (VIDEO 3) (D965)			
S135	1-554-303-21	SWITCH, TACTILE (VIDEO 2) (D865)			
S136	1-554-303-21	SWITCH, TACTILE (SOUND FIELD>)			
S137	1-554-303-21	SWITCH, TACTILE (TONE ON/OFF)			
S139	1-554-303-21	SWITCH, TACTILE (VIDEO 1) (D965)			
S139	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR) (D865)			
S140	1-554-303-21	SWITCH, TACTILE (VIDEO 2) (D965)			
S140	1-554-303-21	SWITCH, TACTILE (VIDEO 1) (D865)			
S141	1-554-303-21	SWITCH, TACTILE (TV)			
S142	1-554-303-21	SWITCH, TACTILE (LD)			
S143	1-554-303-21	SWITCH, TACTILE (TAPE MONITOR) (D965)			
S144	1-554-303-21	SWITCH, TACTILE (PTY) (AEP,G)			
S145	1-554-303-21	SWITCH, TACTILE (EON) (AEP,G)			
		< VIBRATOR >			
X100	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	1-656-156-11	H.P BOARD			
		*********			
		< CONNECTOR >			
CN150	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P			
		< JACK >			
J100	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	1-656-151-11	MUTE SW BOARD			
		**********			
		< CONNECTOR >			
CN105	1-770-399-11	HOUSING, CONNECTOR (PC BOARD) 6P			
* CN152	1-569-799-11	PLUG, CONNECTOR 5P			
		< DIODE >			
D106	8-719-301-49	LED SEL2810A (MUTING)			
D108	8-719-301-49	LED SEL2810A (BASS BOOST)			
		< RESISTOR >			
R124	1-249-417-11	CARBON	1K	5%	1/4W
R125	1-249-429-11	CARBON	10K	5%	1/4W
R126	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV100	1-223-880-11	RES, VAR, CARBON 100K/100K (BALANCE)			
		< SWITCH >			
S138	1-554-303-21	SWITCH, TACTILE (MUTING)			
S146	1-554-303-21	SWITCH, TACTILE (BASS BOOST)			
**********					
*	A-4377-745-A	PHONO BOARD, COMPLETE (US,CND,AUS)			
*	A-4377-746-A	PHONO BOARD, COMPLETE (AEP,G)			
		**********			
		< CAPACITOR >			
C024	1-162-287-31	CERAMIC	270PF	10%	50V
C074	1-162-287-31	CERAMIC	270PF	10%	50V
C300	1-162-286-31	CERAMIC	220PF	10%	50V
C304	1-124-477-11	ELECT	47uF	20%	25V
C305	1-130-480-00	MYLAR	0.0056uF	5%	50V
C306	1-130-473-00	MYLAR	0.0015uF	5%	50V
C307	1-124-903-11	ELECT	1uF	20%	50V
C308	1-164-159-11	CERAMIC	0.1uF		50V
C350	1-162-286-31	CERAMIC	220PF	10%	50V
C354	1-124-477-11	ELECT	47uF	20%	25V
C355	1-130-480-00	MYLAR	0.0056uF	5%	50V
C356	1-130-473-00	MYLAR	0.0015uF	5%	50V
C357	1-124-903-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C358	1-164-159-11	CERAMIC	0.1uF		50V
C458	1-124-907-11	ELECT	10uF	20%	50V (AEP,G)
C460	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C461	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G)
C462	1-126-961-11	ELECT	2.2uF	20%	50V (AEP,G)
C463	1-162-288-31	CERAMIC	330PF	10%	50V (AEP,G)
C466	1-162-291-31	CERAMIC	560PF	10%	50V (AEP,G)
C467	1-162-280-31	CERAMIC	82PF	10%	50V (AEP,G)
C468	1-162-215-31	CERAMIC	47PF	5%	50V (AEP,G)
C469	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G)
		< CONNECTOR >			
CNJ303	1-695-095-11	SOCKET, CONNECTOR 13P			
CNJ304	1-695-095-11	SOCKET, CONNECTOR 13P			
CNP302	1-695-091-11	PIN, CONNECTOR (PC BOARD) 15P			
		< IC >			
IC301	8-759-634-51	IC M5218AP			
IC404	8-759-634-51	IC M5218AP (AEP,G)			
IC405	8-759-169-99	IC SAA6579 (AEP,G)			
		< RESISTOR >			
R303	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-249-416-11	CARBON	820	5%	1/4W
R305	1-247-897-11	CARBON	560K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-247-807-31	CARBON	100	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R354	1-249-416-11	CARBON	820	5%	1/4W
R355	1-247-897-11	CARBON	560K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R421	1-249-433-11	CARBON	22K	5%	1/4W (AEP,G)
R422	1-249-426-11	CARBON	5.6K	5%	1/4W (AEP,G)
R424	1-249-441-11	CARBON	100K	5%	1/4W (AEP,G)
R425	1-249-441-11	CARBON	100K	5%	1/4W (AEP,G)
R426	1-249-409-11	CARBON	220	5%	1/4W (AEP,G)

PHONO **PRIM-A** **PRIM-B** **PS** **SEC-A**

Ref. No.	Part No.	Description			Remark
R427	1-249-409-11	CARBON	220	5%	1/4W (AEP,G)
R428	1-249-421-11	CARBON	2.2K	5%	1/4W (AEP,G)
		< VIBRATOR >			
X402	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP,G)			
**********					
*	1-656-158-11	PRIM-A BOARD **********			
		< CONNECTOR >			
CNJ902	1-770-568-11	SOCKET 3P			
**********					
*	1-656-165-11	PRIM-B BOARD **********			
**********					
*	1-656-163-11	PS BOARD *********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-161-494-00	CERAMIC	0.022uF	25V	
C902	1-161-494-00	CERAMIC	0.022uF	25V	
C903	1-124-557-11	ELECT	1000uF	20% 25V	
C903	1-126-942-61	ELECT	1000uF	20% 25V	
C904	1-124-903-11	ELECT	1uF	20% 50V	
C905	1-124-902-00	ELECT	0.47uF	20% 50V	
C906	1-124-464-11	ELECT	0.22uF	20% 50V	
C910	1-113-915-11	CERAMIC	0.001uF	10% 400V (AEP,G)	
C911	1-113-915-11	CERAMIC	0.001uF	10% 400V (AEP,G)	
C913	1-164-159-11	CERAMIC	0.1uF	50V	
		< JACK >			
⚠CNJ901	1-540-060-11	OUTLET, AC (POLAR) (US,CND)			
		< CONNECTOR >			
* CNP902	1-564-751-11	PIN, CONNECTOR (WITH LOCK) 2P			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
* CNP904	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P (AEP,G,AUS)			
CNP905	1-770-412-11	CONNECTOR, BOARD TO BOARD 6P			
CNP908	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AEP,G)			
		< DIODE >			
D901	8-719-024-99	DIODE 11ES2-NTA2B			
D902	8-719-024-99	DIODE 11ES2-NTA2B			
D903	8-719-024-99	DIODE 11ES2-NTA2B			
D904	8-719-024-99	DIODE 11ES2-NTA2B			
D905	8-719-987-63	DIODE 1N4148M			
D906	8-719-987-63	DIODE 1N4148M			
D907	8-719-987-63	DIODE 1N4148M			
		< TERMINAL, EARTH >			
* EB900	1-537-738-21	TERMINAL, EARTH			
* EB901	1-537-738-21	TERMINAL, EARTH (US,CND)			
		< FUSE >			
⚠F901	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V) (D965:AEP,G,AUS)			
⚠F901	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)			
⚠F901	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V) (D965:US,CND)			
⚠F902	1-532-464-51	FUSE (T2.5AL 250V) (D965:AEP,G,AUS)			
		< IC >			
IC901	8-759-333-83	IC NJM2103D			
		< TRANSISTOR >			
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q902	8-729-030-18	TRANSISTOR 2SD2525			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10% 1/2W (US,CND)	
R902	1-249-429-11	CARBON	10K	5% 1/4W	
R903	1-249-425-11	CARBON	4.7K	5% 1/4W	
R904	1-249-417-11	CARBON	1K	5% 1/4W	
R905	1-249-429-11	CARBON	10K	5% 1/4W	
R906	1-247-840-00	CARBON	2.4K	5% 1/4W	
R908	1-249-433-11	CARBON	22K	5% 1/4W	
R909	1-249-439-11	CARBON	68K	5% 1/4W	
R910	1-249-429-11	CARBON	10K	5% 1/4W	
R911	1-249-417-11	CARBON	1K	5% 1/4W	
R912	1-249-423-11	CARBON	3.3K	5% 1/4W	
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER (US,CND)			
⚠T902	1-450-358-11	TRANSFORMER, POWER (AEP,G,AUS)			
**********					
*	1-656-167-11	SEC-A BOARD **********			
		< CAPACITOR >			
C817	1-124-122-11	ELECT	100uF	20% 50V (AEP,G)	

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Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNJ801	1-750-533-11	SOCKET 6P	
* CNP802	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
		< DIODE >	
D804	8-719-987-63	DIODE 1N4148M	
D908	8-719-014-66	DIODE UZP-5.6B	
		< FUSE >	
⚠F801	1-532-506-51	FUSE (T6.3AL 250V) (D965:AEP,G,AUS)	
⚠F801	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F801	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V)	(D965:US,CND)
⚠F802	1-532-506-51	FUSE (T6.3AL 250V) (D965:AEP,G,AUS)	
⚠F802	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F802	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5)(8A 125V)	(D965:US,CND)
⚠F803	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP,G,AUS)
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(D965:US,CND)
⚠F803	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F804	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP,G,AUS)
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(D965:US,CND)
⚠F804	1-576-107-11	FUSE (3.15A 125V) (D865)	
		< RELAY >	
RY801	1-755-026-11	RELAY (D865,D965:US,AEP,G,AUS)	
RY851	1-515-918-11	RELAY (D965:CND)	
RY852	1-515-918-11	RELAY (D965:CND)	
**********			
*	1-656-164-11	SEC-B BOARD **********	
		< DIODE >	
D805	8-719-024-99	DIODE 11ES2-NTA2B (AEP,G)	
		< RESISTOR >	
R818	1-249-385-11	CARBON 2.2 5% 1/6W	(AEP,G)
**********			
*	1-656-168-11	SEC-C BOARD **********	
**********			

Ref. No.	Part No.	Description	Remark
*	1-656-150-11	SP SW BOARD **********	
		< CONNECTOR >	
* CN151	1-565-295-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D113	8-719-987-63	DIODE 1N4148M	
D114	8-719-987-63	DIODE 1N4148M	
		< SWITCH >	
S100	1-762-268-11	SWITCH, ROTARY (SPEAKERS)	
**********			
*	1-656-162-11	SP TM BOARD **********	
		< CAPACITOR >	
C017	1-164-159-11	CERAMIC 0.1uF	50V (AEP,G)
C019	1-162-282-31	CERAMIC 100PF 10%	50V (AEP,G)
C067	1-164-159-11	CERAMIC 0.1uF	50V (AEP,G)
C710	1-164-096-11	CERAMIC 0.01uF	50V (AEP,G)
C713	1-164-096-11	CERAMIC 0.01uF	50V (AEP,G)
C760	1-164-096-11	CERAMIC 0.01uF	50V (AEP,G)
C763	1-164-096-11	CERAMIC 0.01uF	50V (AEP,G)
		< CONNECTOR >	
CNJ703	1-770-569-11	SOCKET 4P	
CNJ704	1-695-092-11	SOCKET, CONNECTOR 7P	
		< DIODE >	
D712	8-719-987-63	DIODE 1N4148M (D865,AEP,G,AUS)	
D762	8-719-987-63	DIODE 1N4148M	
		< JACK >	
J701	1-770-377-21	JACK, PIN 1P (MIX OUT)	
		< COIL >	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q714	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q716	8-729-900-80	TRANSISTOR DTC114ES (D865)	
Q717	8-729-119-76	TRANSISTOR 2SA1175-HF (D865)	

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SP TM **SURR**

Ref. No.	Part No.	Description			Remark
Q718	8-729-900-80	TRANSISTOR DTC114ES (D865)			
Q764	8-729-119-79	TRANSISTOR 2SC2785-FEK			
		< RESISTOR >			
⚠R713	1-249-389-11	CARBON	4.7	5%	1/4W F
R717	1-249-393-11	CARBON	10	5%	1/4W (AEP,G)
R718	1-249-421-11	CARBON	2.2K	5%	1/4W
R720	1-249-393-11	CARBON	10	5%	1/4W (AEP,G)
R724	1-249-429-11	CARBON	10K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R726	1-249-411-11	CARBON	330	5%	1/4W F (D865,AEP,G,AUS)
⚠R726	1-249-414-11	CARBON	560	5%	1/4W F (D965:US,CND)
R729	1-249-438-11	CARBON	56K	5%	1/4W
R730	1-249-438-11	CARBON	56K	5%	1/4W
R731	1-249-438-11	CARBON	56K	5%	1/4W
R732	1-249-438-11	CARBON	56K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W (D865)
R734	1-249-429-11	CARBON	10K	5%	1/4W (D865)
⚠R763	1-249-389-11	CARBON	4.7	5%	1/4W F
R767	1-249-393-11	CARBON	10	5%	1/4W (AEP,G)
R770	1-249-393-11	CARBON	10	5%	1/4W (AEP,G)
R774	1-249-429-11	CARBON	10K	5%	1/4W
R775	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠R776	1-249-411-11	CARBON	330	5%	1/4W F (D865,AEP,G,AUS)
⚠R776	1-249-414-11	CARBON	560	5%	1/4W F (D965:US,CND)
		< RELAY >			
RY701	1-515-765-11	RELAY			
RY702	1-515-765-11	RELAY			
		< SWITCH >			
S701	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			(D965:US,CND,AUS)
		< TERMINAL >			
TM701	1-537-376-11	TERMINAL BOARD (SP) (FRONT SPEAKER)			

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Ref. No.	Part No.	Description			Remark
*	A-4377-755-A	SURR BOARD, COMPLETE (D965:US,CND)			
*	A-4377-756-A	SURR BOARD, COMPLETE (D965:AEP,G)			
*	A-4377-757-A	SURR BOARD, COMPLETE (D965:AUS)			
*	A-4377-772-A	SURR BOARD, COMPLETE (D865)			
		**********			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C013	1-164-096-11	CERAMIC	0.01uF		50V (AEP,G)
C015	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C018	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C019	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C020	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C021	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C022	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C023	1-164-159-11	CERAMIC	0.1uF		50V (AEP,G)
C063	1-164-096-11	CERAMIC	0.01uF		50V (AEP,G)
C301	1-126-163-11	ELECT	4.7uF	20%	50V (EXCEPT AUS)
C302	1-102-106-00	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)
C302	1-102-110-00	CERAMIC	220PF	10%	50V (AEP,G)
C310	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C311	1-126-163-11	ELECT	4.7uF	20%	50V
C312	1-126-163-11	ELECT	4.7uF	20%	50V
C313	1-126-163-11	ELECT	4.7uF	20%	50V
C314	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C315	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C316	1-164-159-11	CERAMIC	0.1uF		50V
C317	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C318	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C351	1-126-163-11	ELECT	4.7uF	20%	50V (EXCEPT AUS)
C352	1-102-106-00	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)
C352	1-102-110-00	CERAMIC	220PF	10%	50V (AEP,G)
C360	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C361	1-126-163-11	ELECT	4.7uF	20%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C362	1-126-163-11	ELECT	4.7uF	20%	50V
C363	1-126-163-11	ELECT	4.7uF	20%	50V
C364	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C365	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C366	1-164-159-11	CERAMIC	0.1uF		50V
C367	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C368	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,G)
C397	1-102-106-00	CERAMIC	100PF	10%	50V
C398	1-102-074-00	CERAMIC	0.001uF	10%	50V
C400	1-162-282-31	CERAMIC	100PF	10%	50V
C401	1-164-159-11	CERAMIC	0.1uF		50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
C403	1-136-157-00	FILM	0.022uF	5%	50V
C404	1-136-161-00	FILM	0.047uF	5%	50V (EXCEPT AUS)
C404	1-136-160-00	FILM	0.039uF	5%	50V (AUS)
C405	1-104-666-11	ELECT	220uF	20%	10V
C406	1-124-907-11	ELECT	10uF	20%	50V
C407	1-124-907-11	ELECT	10uF	20%	50V
C408	1-124-907-11	ELECT	10uF	20%	50V
C409	1-124-907-11	ELECT	10uF	20%	50V
C410	1-104-666-11	ELECT	220uF	20%	10V
C411	1-126-962-11	ELECT	3.3uF	20%	50V
C412	1-126-962-11	ELECT	3.3uF	20%	50V
C413	1-136-165-00	FILM	0.1uF	5%	50V
C414	1-136-165-00	FILM	0.1uF	5%	50V
C415	1-124-902-00	ELECT	0.47uF	20%	50V
C416	1-126-963-11	ELECT	4.7uF	20%	50V
C417	1-124-902-00	ELECT	0.47uF	20%	50V
C418	1-126-963-11	ELECT	4.7uF	20%	50V
C419	1-124-250-11	ELECT	0.15uF	20%	50V
C420	1-126-962-11	ELECT	3.3uF	20%	50V
C421	1-124-250-11	ELECT	0.15uF	20%	50V
C422	1-162-282-31	CERAMIC	100PF	10%	50V
C423	1-104-664-11	ELECT	47uF	20%	16V
C424	1-136-165-00	FILM	0.1uF	5%	50V
C425	1-136-165-00	FILM	0.1uF	5%	50V
C426	1-124-902-00	ELECT	0.47uF	20%	50V
C427	1-126-963-11	ELECT	4.7uF	20%	50V
C428	1-126-963-11	ELECT	4.7uF	20%	50V
C429	1-124-250-11	ELECT	0.15uF	20%	50V
C430	1-124-902-00	ELECT	0.47uF	20%	50V
C431	1-126-962-11	ELECT	3.3uF	20%	50V
C432	1-124-250-11	ELECT	0.15uF	20%	50V
C433	1-104-666-11	ELECT	220uF	20%	10V
C434	1-104-664-11	ELECT	47uF	20%	16V
C435	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C436	1-126-961-11	ELECT	2.2uF	20%	50V
C437	1-104-666-11	ELECT	220uF	20%	10V
C438	1-136-165-00	FILM	0.1uF	5%	50V
C439	1-124-907-11	ELECT	10uF	20%	50V
C440	1-130-469-00	MYLAR	680PF	5%	50V
C441	1-126-962-11	ELECT	3.3uF	20%	50V
C442	1-126-963-11	ELECT	4.7uF	20%	50V
C443	1-164-159-11	CERAMIC	0.1uF		50V
C444	1-126-963-11	ELECT	4.7uF	20%	50V
C445	1-164-159-11	CERAMIC	0.1uF		50V
C446	1-164-159-11	CERAMIC	0.1uF		50V
C447	1-136-173-00	FILM	0.47uF	5%	50V
C448	1-126-963-11	ELECT	4.7uF	20%	50V
C449	1-162-215-31	CERAMIC	47PF	5%	50V
C450	1-162-215-31	CERAMIC	47PF	5%	50V
C451	1-164-159-11	CERAMIC	0.1uF		50V
C452	1-104-666-11	ELECT	220uF	20%	10V
C453	1-136-159-00	FILM	0.033uF	5%	50V
C454	1-130-473-00	MYLAR	0.0015uF	5%	50V
C455	1-136-159-00	FILM	0.033uF	5%	50V
C456	1-124-903-11	ELECT	1uF	20%	50V
C457	1-104-666-11	ELECT	220uF	20%	10V
C461	1-164-159-11	CERAMIC	0.1uF		50V (AEP)
C462	1-164-159-11	CERAMIC	0.1uF		50V (AEP)
C464	1-164-159-11	CERAMIC	0.1uF		50V
C470	1-162-215-31	CERAMIC	47PF	5%	50V
C472	1-126-963-11	ELECT	4.7uF	20%	50V (EXCEPT AUS)
C472	1-124-477-11	ELECT	47uF	20%	25V (AUS)
C473	1-126-963-11	ELECT	4.7uF	20%	50V (EXCEPT AUS)
C473	1-124-477-11	ELECT	47uF	20%	25V (AUS)
C491	1-126-962-11	ELECT	3.3uF	20%	50V
C492	1-126-963-11	ELECT	4.7uF	20%	50V
C493	1-164-159-11	CERAMIC	0.1uF		50V
C494	1-126-963-11	ELECT	4.7uF	20%	50V
C495	1-164-159-11	CERAMIC	0.1uF		50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-102-106-00	CERAMIC	100PF	10%	50V
C503	1-102-989-00	CERAMIC	68PF	5%	500V (EXCEPT AUS)
C503	1-102-110-00	CERAMIC	220PF	10%	50V (AUS)
C504	1-102-989-00	CERAMIC	68PF	5%	500V
C505	1-124-443-00	ELECT	100uF	20%	10V
C506	1-136-159-00	FILM	0.033uF	5%	50V
C507	1-136-171-00	FILM	0.33uF	5%	50V
C508	1-124-910-11	ELECT	47uF	20%	50V
C509	1-136-495-11	FILM	0.068uF	5%	50V

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Ref. No.	Part No.	Description			Remark
C510	1-136-153-00	FILM	0.01uF	5%	50V
C511	1-130-476-00	MYLAR	0.0027uF	5%	50V
C512	1-136-157-00	FILM	0.022uF	5%	50V
C513	1-102-947-00	CERAMIC	10PF	5%	50V
C514	1-102-947-00	CERAMIC	10PF	5%	50V
C521	1-126-963-11	ELECT	4.7uF	20%	50V
C522	1-102-106-00	CERAMIC	100PF	10%	50V
C523	1-104-664-11	ELECT	47uF	20%	16V
C524	1-102-989-00	CERAMIC	68PF	5%	500V
C525	1-102-989-00	CERAMIC	68PF	5%	500V
C526	1-102-937-00	CERAMIC	4.0PF	±0.25PF	50V
C551	1-126-963-11	ELECT	4.7uF	20%	50V
C552	1-102-106-00	CERAMIC	100PF	10%	50V
C553	1-102-989-00	CERAMIC	68PF	5%	500V (EXCEPT AUS)
C553	1-102-110-00	CERAMIC	220PF	10%	50V (AUS)
C554	1-102-989-00	CERAMIC	68PF	5%	500V
C555	1-124-443-00	ELECT	100uF	20%	10V
C556	1-136-159-00	FILM	0.033uF	5%	50V
C557	1-136-171-00	FILM	0.33uF	5%	50V
C558	1-124-910-11	ELECT	47uF	20%	50V
C559	1-136-495-11	FILM	0.068uF	5%	50V
C560	1-136-153-00	FILM	0.01uF	5%	50V
C561	1-130-476-00	MYLAR	0.0027uF	5%	50V
C562	1-136-157-00	FILM	0.022uF	5%	50V
C563	1-102-947-00	CERAMIC	10PF	5%	50V
C564	1-102-947-00	CERAMIC	10PF	5%	50V
C593	1-124-916-11	ELECT	22uF	20%	63V (D865,D965:AEP,G,AUS)
C593	1-124-929-11	ELECT	22uF	20%	100V (D965:US,CND)
C594	1-124-916-11	ELECT	22uF	20%	63V (D865,D965:AEP,G,AUS)
C594	1-124-929-11	ELECT	22uF	20%	100V (D965:US,CND)
C595	1-164-159-11	CERAMIC	0.1uF		50V
C596	1-104-664-11	ELECT	47uF	20%	16V
C597	1-104-664-11	ELECT	47uF	20%	16V
C598	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNJ299	1-770-832-11	CONNECTOR, BOARD TO BOARD 6P (D965)			
CNJ402	1-764-926-11	CONNECTOR,FFC (LIF (NON-ZIF))21P			
CNJ501	1-770-404-11	HOUSING,CONNECTOR (PC BOARD) 11P			
CNJ502	1-770-404-11	HOUSING,CONNECTOR (PC BOARD) 11P			
CNP303	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP304	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
CNP404	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P			
		< DIODE >			
D401	8-719-001-30	DIODE UZL-9H3			
D402	8-719-987-63	DIODE 1N4148M			
D403	8-719-024-99	DIODE 11ES2-NTA2B			
		< TERMINAL, EARTH >			
* EB400	1-537-738-21	TERMINAL, EARTH			
* EB401	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC302	8-759-634-50	IC M5218AL			
IC303	8-759-634-50	IC M5218AL			
IC305	8-759-805-14	IC LC7822			
IC401	8-759-248-74	IC LA2785			
IC402	8-759-341-23	IC LV1011			
IC403	8-759-634-51	IC M5218AP			
IC406	8-759-634-51	IC M5218AP			
IC501	8-749-920-70	IC STK-3102-3			
IC502	8-759-072-32	IC TC9184P			
IC503	8-749-011-16	IC STK350-230			
		< JACK >			
J301	1-691-887-11	JACK, PIN 6P (PHONO IN,CD IN,DAT/MD IN) (EXCEPT AEP,G)			
J301	1-766-394-11	JACK, PIN 6P (PHONO IN,CD IN,DAT/MD IN) (AEP,G)			
J302	1-580-825-11	JACK, PIN 6P (TAPE IN/REC OUT, DAT/MD REC OUT) (EXCEPT AEP,G)			
J302	1-766-394-11	JACK, PIN 6P (TAPE IN/REC OUT, DAT/MD OUT) (AEP,G)			
		< COIL >			
L401	1-410-509-11	INDUCTOR 10uH			
L402	1-410-509-11	INDUCTOR 10uH			
		< TRANSISTOR >			
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q403	8-729-140-96	TRANSISTOR 2SD774-34			
Q404	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q405	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q406	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q407	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q408	8-729-900-63	TRANSISTOR DTA124ES			
Q409	8-729-900-63	TRANSISTOR DTA124ES			
Q410	8-729-900-63	TRANSISTOR DTA124ES			
Q411	8-729-900-63	TRANSISTOR DTA124ES			
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q502	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q552	8-729-202-67	TRANSISTOR 2SK246-GR3			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R300	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,G)
R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AUS)
R310	1-249-421-11	CARBON	2.2K	5%	1/4W
R311	1-249-417-11	CARBON	1K	5%	1/4W
R312	1-249-417-11	CARBON	1K	5%	1/4W
R313	1-249-417-11	CARBON	1K	5%	1/4W
R314	1-249-417-11	CARBON	1K	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R316	1-249-437-11	CARBON	47K	5%	1/4W
R317	1-249-437-11	CARBON	47K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-425-11	CARBON	4.7K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R350	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,G)
R351	1-249-409-11	CARBON	220	5%	1/4W
R352	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AUS)
R360	1-249-421-11	CARBON	2.2K	5%	1/4W
R361	1-249-417-11	CARBON	1K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R363	1-249-417-11	CARBON	1K	5%	1/4W
R364	1-249-417-11	CARBON	1K	5%	1/4W
R365	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AUS)
R365	1-249-437-11	CARBON	47K	5%	1/4W (AUS)
R366	1-249-437-11	CARBON	47K	5%	1/4W
R367	1-249-437-11	CARBON	47K	5%	1/4W
R368	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AUS)
R368	1-249-437-11	CARBON	47K	5%	1/4W (AUS)
R369	1-249-417-11	CARBON	1K	5%	1/4W
R370	1-249-425-11	CARBON	4.7K	5%	1/4W
R371	1-249-429-11	CARBON	10K	5%	1/4W
R397	1-249-417-11	CARBON	1K	5%	1/4W
R398	1-249-425-11	CARBON	4.7K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W
R403	1-247-807-31	CARBON	100	5%	1/4W
R404	1-247-807-31	CARBON	100	5%	1/4W
R405	1-249-425-11	CARBON	4.7K	5%	1/4W
R406	1-249-425-11	CARBON	4.7K	5%	1/4W
R407	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-431-11	CARBON	15K	5%	1/4W
R409	1-249-407-11	CARBON	150	5%	1/4W
R410	1-249-436-11	CARBON	39K	5%	1/4W
R411	1-249-439-11	CARBON	68K	5%	1/4W
R412	1-247-903-00	CARBON	1M	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-433-11	CARBON	22K	5%	1/4W
R416	1-249-413-11	CARBON	470	5%	1/4W
R417	1-249-425-11	CARBON	4.7K	5%	1/4W
R418	1-249-413-11	CARBON	470	5%	1/4W
R419	1-249-425-11	CARBON	4.7K	5%	1/4W
R430	1-249-441-11	CARBON	100K	5%	1/4W
R431	1-249-437-11	CARBON	47K	5%	1/4W
R432	1-249-441-11	CARBON	100K	5%	1/4W
R433	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-441-11	CARBON	100K	5%	1/4W
R435	1-249-437-11	CARBON	47K	5%	1/4W
R436	1-249-437-11	CARBON	47K	5%	1/4W
R437	1-249-416-11	CARBON	820	5%	1/4W
R438	1-249-429-11	CARBON	10K	5%	1/4W
R440	1-249-429-11	CARBON	10K	5%	1/4W
R441	1-249-429-11	CARBON	10K	5%	1/4W
R442	1-249-435-11	CARBON	33K	5%	1/4W
R443	1-249-433-11	CARBON	22K	5%	1/4W
R444	1-249-433-11	CARBON	22K	5%	1/4W
R445	1-249-429-11	CARBON	10K	5%	1/4W
R446	1-249-417-11	CARBON	1K	5%	1/4W
R447	1-249-417-11	CARBON	1K	5%	1/4W
R448	1-249-417-11	CARBON	1K	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R464	1-249-429-11	CARBON	10K	5%	1/4W
R465	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-249-413-11	CARBON	470	5%	1/4W
R467	1-249-425-11	CARBON	4.7K	5%	1/4W
R468	1-249-413-11	CARBON	470	5%	1/4W
R469	1-249-425-11	CARBON	4.7K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-441-11	CARBON	100K	5%	1/4W
R503	1-249-413-11	CARBON	470	5%	1/4W
R504	1-249-440-11	CARBON	82K	5%	1/4W
R505	1-249-433-11	CARBON	22K	5%	1/4W
R506	1-249-413-11	CARBON	470	5%	1/4W
R507	1-249-427-11	CARBON	6.8K	5%	1/4W
R508	1-247-883-00	CARBON	150K	5%	1/4W
R509	1-249-423-11	CARBON	3.3K	5%	1/4W
R510	1-247-903-00	CARBON	1M	5%	1/4W
R511	1-249-441-11	CARBON	100K	5%	1/4W
R512	1-249-426-11	CARBON	5.6K	5%	1/4W
R513	1-249-441-11	CARBON	100K	5%	1/4W
R515	1-249-434-11	CARBON	27K	5%	1/4W
R516	1-249-426-11	CARBON	5.6K	5%	1/4W
R517	1-249-418-11	CARBON	1.2K	5%	1/4W
R518	1-249-415-11	CARBON	680	5%	1/4W

SURR **VIDEO 3** **VIDEO-A**

Ref. No.	Part No.	Description			Remark
R519	1-249-431-11	CARBON	15K	5%	1/4W (EXCEPT AEP,G)
R519	1-249-429-11	CARBON	10K	5%	1/4W (AEP,G)
R521	1-249-417-11	CARBON	1K	5%	1/4W
R523	1-249-438-11	CARBON	56K	5%	1/4W
R524	1-249-413-11	CARBON	470	5%	1/4W
R525	1-249-412-11	CARBON	390	5%	1/4W (EXCEPT AEP,G)
R525	1-247-826-00	CARBON	620	5%	1/4W (AEP,G)
R526	1-249-438-11	CARBON	56K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W
R552	1-249-441-11	CARBON	100K	5%	1/4W
R553	1-249-413-11	CARBON	470	5%	1/4W
R554	1-249-440-11	CARBON	82K	5%	1/4W
R555	1-249-433-11	CARBON	22K	5%	1/4W
R556	1-249-413-11	CARBON	470	5%	1/4W
R557	1-249-427-11	CARBON	6.8K	5%	1/4W
R558	1-247-883-00	CARBON	150K	5%	1/4W
R559	1-249-423-11	CARBON	3.3K	5%	1/4W
R560	1-247-903-00	CARBON	1M	5%	1/4W
R561	1-249-441-11	CARBON	100K	5%	1/4W
R562	1-249-426-11	CARBON	5.6K	5%	1/4W
R563	1-249-441-11	CARBON	100K	5%	1/4W
R565	1-249-434-11	CARBON	27K	5%	1/4W
R566	1-249-426-11	CARBON	5.6K	5%	1/4W
R567	1-249-418-11	CARBON	1.2K	5%	1/4W
R568	1-249-415-11	CARBON	680	5%	1/4W
R569	1-249-431-11	CARBON	15K	5%	1/4W (EXCEPT AEP,G)
R569	1-249-429-11	CARBON	10K	5%	1/4W (AEP,G)
⚠R592	1-249-397-11	CARBON	22	5%	1/4W F
⚠R593	1-249-397-11	CARBON	22	5%	1/4W F
R594	1-247-903-00	CARBON	1M	5%	1/4W
R595	1-249-425-11	CARBON	4.7K	5%	1/4W
R596	1-249-419-11	CARBON	1.5K	5%	1/4W
R597	1-249-419-11	CARBON	1.5K	5%	1/4W
R598	1-249-425-11	CARBON	4.7K	5%	1/4W
R599	1-249-417-11	CARBON	1K	5%	1/4W
		< TERMINAL >			
TM401	1-537-734-11	TERMINAL BOARD, ANT (ANTENNA) (US,CND)			
TM401	1-537-714-11	TERMINAL BOARD (ANTENNA) (AEP,G,AUS)			
		< TUNER >			
TU401	1-693-286-11	TUNER (FCC) (US,CND)			
TU401	1-693-287-11	TUNER (CE) (AEP,G,AUS)			
		< VIBRATOR >			
X401	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			

Ref. No.	Part No.	Description			Remark
**********					
*	1-656-157-11	VIDEO 3 BOARD (D965)			
		**********			
		< CAPACITOR >			
C025	1-162-282-31	CERAMIC	100PF	10%	50V (D965)
C075	1-162-282-31	CERAMIC	100PF	10%	50V (D965)
C299	1-164-159-11	CERAMIC	0.1uF		50V (D965)
		< CONNECTOR >			
CNP299	1-770-831-11	CONNECTOR, BOARD TO BOARD 6P (D965)			
		< JACK >			
J299	1-770-340-11	JACK BLOCK, PIN (L TYPE) 3P (VIDEO 3) (D965)			
		< RESISTOR >			
R005	1-249-417-11	CARBON	1K	5%	1/4W (D965)
R055	1-249-417-11	CARBON	1K	5%	1/4W (D965)
R299	1-249-403-11	CARBON	68	5%	1/4W (D965)
**********					
*	1-656-154-11	VIDEO-A BOARD			
		**********			
		< CAPACITOR >			
C201	1-124-903-11	ELECT	1uF	20%	50V
C202	1-124-903-11	ELECT	1uF	20%	50V
C203	1-124-903-11	ELECT	1uF	20%	50V
C204	1-124-903-11	ELECT	1uF	20%	50V
C205	1-124-907-11	ELECT	10uF	20%	50V
C206	1-124-907-11	ELECT	10uF	20%	50V
C207	1-124-907-11	ELECT	10uF	20%	50V
C209	1-104-665-11	ELECT	100uF	20%	16V
C211	1-104-665-11	ELECT	100uF	20%	16V
C212	1-164-159-11	CERAMIC	0.1uF		50V
C213	1-164-159-11	CERAMIC	0.1uF		50V
C214	1-164-159-11	CERAMIC	0.1uF		50V
C215	1-164-159-11	CERAMIC	0.1uF		50V
		< IC >			
IC201	8-759-061-95	IC SN761200			
		< JACK >			
J201	1-695-317-21	JACK, PIN 2P (LD,MONITOR)			
J202	1-766-199-11	JACK, PIN 3P (VIDEO 2,TV)			
J203	1-695-317-21	JACK, PIN 2P (VIDEO 1)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< COIL >			
L201	1-410-521-11	INDUCTOR	100uH		
L202	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q201	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q202	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q203	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q204	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q205	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q206	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q207	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R201	1-249-403-11	CARBON	68	5%	1/4W
R202	1-249-403-11	CARBON	68	5%	1/4W
R203	1-249-403-11	CARBON	68	5%	1/4W
R204	1-249-403-11	CARBON	68	5%	1/4W
R205	1-249-403-11	CARBON	68	5%	1/4W
R206	1-249-403-11	CARBON	68	5%	1/4W
R207	1-249-430-11	CARBON	12K	5%	1/4W
R208	1-249-419-11	CARBON	1.5K	5%	1/4W
R209	1-249-426-11	CARBON	5.6K	5%	1/4W
R210	1-249-403-11	CARBON	68	5%	1/4W
R211	1-249-403-11	CARBON	68	5%	1/4W
R212	1-249-430-11	CARBON	12K	5%	1/4W
R213	1-249-419-11	CARBON	1.5K	5%	1/4W
R214	1-249-426-11	CARBON	5.6K	5%	1/4W
R215	1-249-403-11	CARBON	68	5%	1/4W
R216	1-249-403-11	CARBON	68	5%	1/4W
R217	1-249-426-11	CARBON	5.6K	5%	1/4W
R218	1-249-419-11	CARBON	1.5K	5%	1/4W
R219	1-249-430-11	CARBON	12K	5%	1/4W
R220	1-247-807-31	CARBON	100	5%	1/4W
R250	1-249-417-11	CARBON	1K	5%	1/4W
R251	1-249-429-11	CARBON	10K	5%	1/4W
**********					
*	1-656-155-11	VIDEO-B BOARD			
		**********			
		< CONNECTOR >			
CNJ301	1-695-092-11	SOCKET, CONNECTOR 7P			
**********					
*	1-656-152-11	VOL BOARD			
		*********			
		< CONNECTOR >			
CNJ405	1-695-095-11	SOCKET, CONNECTOR 13P			
CNP108	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP406	1-770-390-11	PIN, CONNECTOR (PC BOARD) 6P			

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV401	1-241-816-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)	
**********			
*	1-656-170-11	VS BOARD	
		*********	
		< CONNECTOR >	
CNJ404	1-695-095-11	SOCKET, CONNECTOR 13P	
CNP405	1-695-090-11	PIN, CONNECTOR (PC BOARD) 13P	
**********			
		MISCELLANEOUS	
		**********	
10	1-773-718-11	WIRE (FLAT TYPE) (21 CORE)	
15	1-773-709-11	WIRE (FLAT TYPE) (21 CORE)	
⚠66	1-696-847-11	CORD, POWER (AUS)	
⚠66	1-769-743-11	CORD, POWER (US,CND)	
⚠66	1-769-744-11	CORD, POWER (AEP,G)	
⚠CNJ906	1-251-078-11	OUTLET, AC. (AUS)	
⚠CNJ906	1-526-794-11	OUTLET, AC (AEP,G)	
⚠F801	1-532-506-51	FUSE (T6.3AL 250V) (D965:AEP,G,AUS)	
⚠F801	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F801	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V)	(D965:US,CND)
⚠F802	1-532-506-51	FUSE (T6.3AL 250V) (D965:AEP,G,AUS)	
⚠F802	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F802	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V)	(D965:US,CND)
⚠F803	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP,G,AUS)
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(D965:US,CND)
⚠F803	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F804	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP,G,AUS)
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(D965:US,CND)
⚠F804	1-576-107-11	FUSE (3.15A 125V) (D865)	
⚠F901	1-532-465-51	FUSE, TIME LAG (T3.15AL 250V)	(D965:AEP,G,AUS)
⚠F901	1-533-310-11	FUSE, GLASS TUBE6.3A 125V (D865)	
⚠F901	1-533-311-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A 125V)	(D965:US,CND)
⚠F902	1-532-464-51	FUSE (T2.5AL 250V) (D965:AEP,G,AUS)	
⚠T901	1-427-726-11	TRANSFORMER, POWER (D965:US)	
⚠T901	1-427-727-11	TRANSFORMER, POWER (D965:CND)	
⚠T901	1-427-728-11	TRANSFORMER, POWER (D965:AEP,G)	
⚠T901	1-427-729-11	TRANSFORMER, POWER (D865)	
⚠T901	1-427-908-11	TRANSFORMER, POWER (D965:AUS)	
**********			

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******	
	1-473-068-21	COMMANDER, STANDARD (RM-P351)	(D865:CND,D965)
	1-473-070-21	COMMANDER, STANDARD (RM-U251)(D865:US)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM)(AEP,G,AUS)	
	1-501-721-11	ANTENNA (LOOP)	
	3-798-892-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,DUTCH) (AEP)	
	3-798-892-21	MANUAL, INSTRUCTION (ENGLISH) (US,CND)	
	3-798-892-31	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-798-892-41	MANUAL, INSTRUCTION (SPANISH,SWEDISH, DANISH,FINNISH,POLISH)(AEP)	
	3-798-892-51	MANUAL, INSTRUCTION (GERMAN) (G)	
	3-798-892-61	MANUAL, INSTRUCTION (ENGLISH) (AUS)	
	4-925-079-11	COVER (6), BATTERY	(FOR REMOTE COMMANDER)
*	4-952-676-01	CUSHION	
*	4-975-572-01	INDIVIDUAL CARTON (D965:US,CND,AUS)	
*	4-975-573-01	INDIVIDUAL CARTON (D965:AEP,G)	
*	4-975-574-01	INDIVIDUAL CARTON (D865)	

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HARDWARE LIST

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#1	7-685-872-09	SCREW +BVTT 3X8 (S)
#2	7-682-548-04	SCREW +BVTT 3X8 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S

9-960-215-81

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Home A&V Products Company

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